Service Manual

ViewSonic VX800-3

Model No.VLCDS26105-1W

18” *Color TFT LCD Display*

(VX800-3__SM_645 -Rev.1a-Feb 2003)

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Revision History

Revision	Date	Description Of Changes	Approval
1a	**02/11/03**	**Initial Reversion DCN-3047**	**C.Shen**

PRECAUTIONS AND NOTICES

Prior to using this manual, please ensure that you have carefully followed all the procedures outlined in the user manual for this product.

- Read all of these instructions.
- Save these instructions for later use.
- Follow all warnings and instructions marked on the product.
- Do not use this product near water.
- This display should be installed on a solid horizontal base.
- When cleaning, use only a neutral detergent cleaner with a soft damp cloth. Do not spray with liquid or aerosol cleaners.
- Do not expose this display to direct sunlight or heat. Hot air may cause damage to the cabinet and other parts.
- Adequate ventilation must be maintained to ensure reliable and continued operation and to protect the display from overheating. Do not block ventilation slots and openings with objects or install the display in a place where ventilation may be hindered.
- Do not install this display near a motor or transformer where strong magnetism is generated. Images on the display will become distorted and the color irregular.
- Do not allow metal pieces or objects of any kind fall into the display from ventilation holes.

Slots and openings in the cabinet and the back or bottom are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating, those openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.

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I. Engineering Specifications.

1.1 Scope

The following specifications are applicable to model VX800-3 18 inch color LCD monitor.

General Description (Quick Reference)

LCD	Chi-Mei 18.0" SXGA TFT- MVA (premium)	
	Size	18.0 inches diagonal
	Effective Display Size	357.12 mm X 285.696 mm (typical)
	Pixel Pitch	0.279 mm X 0.279 mm
	Resolution	1280 x 1024 dot (SXGA)
	Brightness	250 cd / m² (typ.), 200 min.
	Contrast Ratio	500:1(typ.), 400:1(min.)
	Color	16,777,216
	Viewing Angle	Up 80° Down 80° (min.) Left 80° Right 80°(min.) CR>10:1
	Surface treatment	Anti-Glare
Input Signals	RGB Analog 0.7 Vp-p / Positive Polarity 75Ω TTL level Separate sync. Composite sync Digital Sync-On-Green TMDS.	
Input connector	Analog mini D-sub 15 pin x 1 Digital DVI-D x 1 Audio min-Din 2 channel x 2 Micro-phone jack	
Speaker	Max 3W x 2	
Main IC	GM5120	
Display Colors	16,777,216	
Preset Timings	SXGA/60Hz, 75Hz, XGA/60Hz, 70Hz, 75Hz, 85Hz SVGA/56Hz, 60Hz, 72Hz, 75Hz, 85Hz VGA/60Hz, 72Hz, 75Hz, 85Hz Dos-text/70Hz	
Synchronization	Horizontal 30 kHz to 82 kHz (automatically) Vertical 50 Hz to 75 Hz (automatically) Non-interlaced Max Pixel Rated 135Mhz	
Resolution	Horizontal 1280 dots Vertical 1024 lines	

Active Display Area	Horizontal 357.12 mm (typical) Vertical 285.696 mm (typical) (Active display area is dependent upon signal timings)	
Power Supply Rating	AC INPUT AC90V-264V 50 / 60 Hz	
AC Power Consumption	60W (Max.) On mode less than 3W Off mode(w/o audio cable connected)	
Current Rating	AC input 0.7A @AC 100-240V DC input 4.0A @DC 12.0V	
Dimensions	Net 435.0 (W) x 461.5 (H) x 180.6 (D) mm Gross 565.0 (W) x 525.0 (H) x 260.0 (D) mm	
Weight	Net 7.0Kg Gross 9.7Kg	
Environmental Conditions	Operating Temperature 0 to 50°C (PANEL SURFACE) Operating Humidity 20 to 85% (no condensation, < wetbulb 29 degree C) Storage Temperature -20 to 60°C Storage Humidity 5 to 85% (no condensation, < wetbulb 29 degree C)	
Accessories	AC power cord-UL AC power cord-Schuko Analog VGA cable DVI-D cable Audio cable Micphone cable ViewSonic CD-Wizard	1.8m 1.8m 1.8m 1.8m 1 1 1
Regulatory Standards	UL, CSA or cUL, CB Report, CE, FCC-B, DOC-B, **TUV/Ergo** (which **covers ISO13406-2 and MPRIII**), TUV/GS, PCT (GOST-R) with 20 Hygienic certificates, PCBC (B Mark), SEMKO, DEMKO, FIMKO, NEMKO, BSMI, VCCI, CCIB/EMC, CCEE, PSB (Singapore Safety), TCO'99, NOM and Argentina IRAM (thru TUV).	
Osd Language	English, French, German, Spanish, Finnish, Italian, Japanese, Traditional Chinese, Simplified Chinese	
Others	Tilt Angle 20° up / 5° down Power Saving System User Control by tactile keypad with On Screen Display- VESA DDC1/2B compatible (digital port DDC2B only)	

1.2 Electrical Characteristics

1.2-1 Power Supply

AC Input

Input Voltage	AC90-264V	
Frequency	47 / 63Hz	
Power Consumption:		
60 W (max)	on mode	
Less than 3W	power save mode (audio cable not connected)	
Current Rating	0.7A	@ AC100-240V

1.2-2 LCD

LCD	Chi-Mei panel(TFT-MVA)
Effective display size	357.12 (H) x 285.696 (V) mm (typ) 18.0” / 45.72 cm diagonal
Pixel number	1280 x 1024 pixels
Color filter arrangement	R.G.B. vertical stripe
Display method	TFT, normally black
Drive method	Active matrix (TFT) – MVA
Dot pitch	0.093 (H) x 0.279 (V) mm
Pixel pitch	0.279 (H) x 0.279 (V) mm
Dot number	1280 x 1024 x 3 dots
Backlight	Edge-lighting type with 6 CCFLs (Cold Cathode Fluorescent Tube)
Brightness	200 cd / m^2 (min: center / all white)
Contrast ratio	400:1 (min)
Display color	16,777,216
Typical viewing angle	Up 80° / down 80° / right 80° / left 80° (min.) (Contrast ratio>10 at Ta=25°C, 77°F)
Response time	25 msec (Typical at 25 degree C)

1.2-3 Interface Signals

2.3.1 RGB Video Signals

2.3.1.1 Separate Sync. Signals

Analog R, G, B	0 - 0.7 Vp-p
Signal Level	75Ω± 5%
Sync Level	TTL level
Sync Polarity	independent

2.3.1.2 Sync On green, Composite Sync

2.3.2 TMDS digital Signals

2.3.2.1 Video type

DVI 1.0 compliant

2.3.3 Audio spec.

2.3.3.1 Line input connection

3.5 mm stereo jack x 1

2.3.3.2 Line input signal & impedance

1.0Vrms, 10 kOhm

2.3.3.3 OUTPUT SIGNAL AT SPEAKER TERMINAL

3W @ < 5% DISTORTION

2.3.3.4 Frequency Response

400 Hz – 20 KHz

2.3.3.5 Connector PC99 requirement Audio in

Lime Green pantone # 577C

2.3.3.6 Cable length

1.8 m

2.3.3.7 Audio DPMS

Speakers stay on when the rest of the monitor is in power saving.

2.3.3.8 Speakers

Impedance 4 Ohm

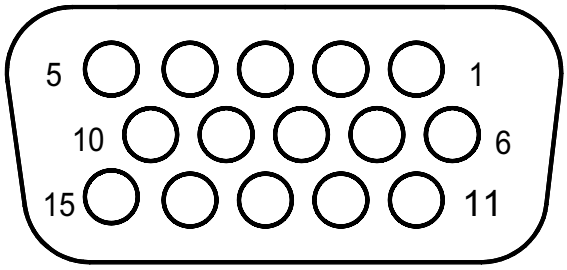
Output Wattage 3.0W (max.) x 2

2.3.4 Input Signal Connectors

2.3.4.1 Analog RGB Video Input: 15 pin mini D-sub

PIN NO.	Separate Sync
1	RED
2	GREEN
3	BLUE
4	GROUND
5	GROUND
6	GROUND
7	GROUND
8	GROUND
9	+5V
10	GROUND
11	N.C

12	SDA
13	H.SYNC
14	V.SYNC
15	SCL



2.3.4.2 Digital TMDS DVI-D Connector

DVI-D connector pin assignment

Pin No.	Signal Name	Description
1	RX2-	TMDS negative differential input, channel 2
2	RX2+	TMDS positive differential input, channel 2
3	GND	Logic Ground
4	Reserved 4	Reserved. No connection
5	Reserved 5	Reserved. No connection
6	DDC-CLK	DDC2B Clock
7	DDC-DAT	DDC2B Data
8	Reserved 8	Reserved. No connection
9	RX1-	TMDS negative differential input, channel 1
10	RX1+	TMDS positive differential input, channel 1
11	GND	Logic Ground
12	Reserved 12	Reserved. No connection
13	Reserved 13	Reserved. No connection
14	VCCX	Power
15	GND	Logic Ground
16	SENS	SENSE Pin, Pull High
17	RX0-	TMDS negative differential input, channel 0
18	RX0+	TMDS positive differential input, channel 0
19	GND	Logic Ground
20	Reserved 20	Reserved. No connection
21	Reserved 21	Reserved. No connection
22	GND	Logic Ground
23	RXC+	TMDS positive differential input, reference clock
24	RXC-	TMDS negative differential input, reference clock

2.3.4.3 Audio Connector

2.5 mm Stereo jack x 1,

3.5mm Microphone jack x 1

2.3.5 Signal Timing

2.3.5.1 User Timing Mode memory

Always do auto image adjust after timing mode change

2.3.5.2 Timing mode Change

Maximum time for mode Change with auto image adjust 7 sec.

2.3.5.3 Signal Timing Table

The factory test input video signal is defined as the following table:

Preset No.	H.sync Frequency	V.sync Frequency	SYNC POL.		Video Mode	Description
			H-SYNC	V-SYNC		
MOD [1]	31.468 ±1.0KHz	70.0 ±1.0Hz	+	-	640X350(70)	Text mode
MOD [2]	31.468 ±1.0KHz	70.0 ±1.0Hz	-	+	720X400(70)	Dos text
MOD [3]	31.468 ±1.0KHz	59.94 ±1.0Hz	-	-	640X480(60)	VESA STANDARD
MOD [4]	35.01 ±1.0KHz	66.67 ±1.0Hz	-	-	640X480(66)	MAC
MOD [5]	37.86 ±1.0KHz	72.81 ±1.0Hz	-	-	640X480(72)	VESA STANDARD
MOD [6]	37.5 ±1.0KHz	75.0 ±1.0Hz	-	-	640X480(75)	VESA STANDARD
MOD [7]	43.27 ±1.0KHz	85.0 ±1.0Hz	-	-	640X480(85)	VESA STANDARD
MOD [8]	35.16 ±1.0KHz	56.25 ±1.0Hz	+	+	800X600(56)	VESA STANDARD
MOD [9]	37.88 ±1.0KHz	60.32 ±1.0Hz	+	+	800X600(60)	VESA STANDARD
MOD [10]	48.077 ±1.0KHz	72.19 ±1.0Hz	+	+	800X600(72)	VESA STANDARD
MOD [11]	46.875 ±1.0KHz	75.0 ±1.0Hz	+	+	800X600(75)	VESA STANDARD
MOD [12]	53.67 ±1.0KHz	85.0 ±1.0Hz	+	+	800X600(85)	VESA STANDARD
MOD [13]	49.72 ±1.0KHz	74.5 ±1.0Hz	-	-	832X624(75)	MAC
MOD [14]	48.363 ±1.0KHz	60.0 ±1.0Hz	-	-	1024X768(60)	VESA STANDARD
MOD [15]	58.01 ±1.0KHz	72.08 ±1.0Hz	-	-	1024X768(72)	VESA STANDARD
MOD [16]	60.023 ±1.0KHz	75.0 ±1.0Hz	+	+	1024X768(75)	VESA STANDARD
MOD [17]	68.67 ±1.0KHz	85.0 ±1.0Hz	+	+	1024X768(85)	VESA STANDARD
MOD [20]	63.981 ±1.0KHz	60.02 ±1.0Hz	+	+	1280X1024(60)	VESA STANDARD
MOD [21]	79.976 ±1.0KHz	75.0 ±1.0Hz	+	+	1280X1024(75)	VESA STANDARD

2.4 Luminance Control

Analog signal (6500K)

Over 200 cd / m^2 (@ Cont / Bright max)

Digital signal (6500K)

Over 200 cd / m^2 (@ Cont / Bright max)

2.5. Synchronization

Horizontal: 30 to 82 kHz

Vertical: 50 to 75 Hz Non-interlaced

Maximum 75Hz @ 1280 x 1024 mode

Recommended 60Hz @ 1280 x 1024 mode

2.6 Display Characteristics

2.6.1 Picture Size

Horizontal Width 357.12 mm (typical)

Vertical Width 285.696 mm (typical)

2.6.2 Optical Characteristics

General qualities: The following data was measured by BM7 of TOPCON

Data are panel optical data, for analog signal there are +- 5% tolerance.

Item		Code	Conditions	Min.	Typ.	Max.	Unit
Contrast		CR	White／Black at Image Center	400	500	—	—
White Brightness		L VMAX	Full White	200	250	—	cd / m^2
Uniformity of Brightness			Bmin / Bmax	70	80	—	%
Response At 25 degree		Tpd	All White → All Black All Black → All White		10 15	15 20	ms ms
Viewing Angle	Right	ΘR	Center CR＞10	80	85	—	Degree
	Left	ΘL		80	85	—	Degree
	Up	ΦH		80	85	—	Degree
	Down	ΦL		80	85	—	Degree
Luminance control			All White(digital signal or analog 6500k) Brightness at center of display surface	>=200(cont / bright backlight max)			cd / m^2

These characteristics were measured under the following conditions:

Temperature: 77 ± 6°F, 25 ± 5°C

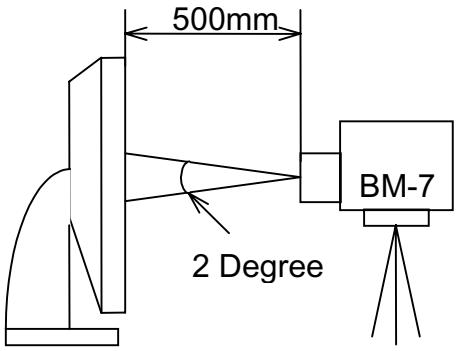
Viewing angle: *A*U = 0°, *A*R = 0°

Warm Up time: minimum 30 minutes

Measuring instrument: TOPCOM BM-7 Luminance Meter

Measuring distance: 500 mm

Measuring angle: 2°

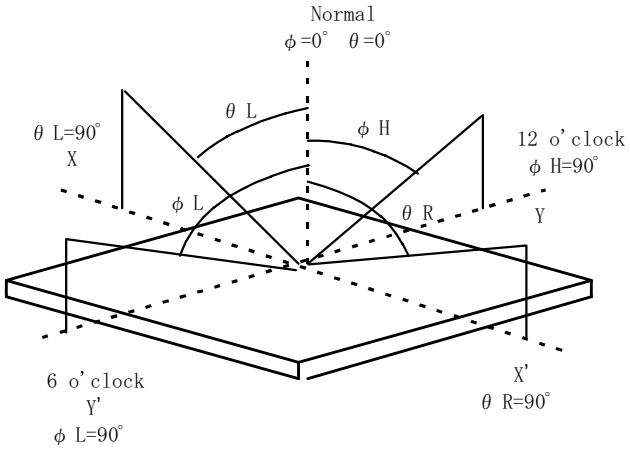


Notes:

(Note 1) Contrast ratio is defined as the following formula.

$$\text{Contrast ratio} = \frac{\text{Brightness (Luminance) with all pixels at "white "}}{\text{Brightness with all pixels at "black"}}$$

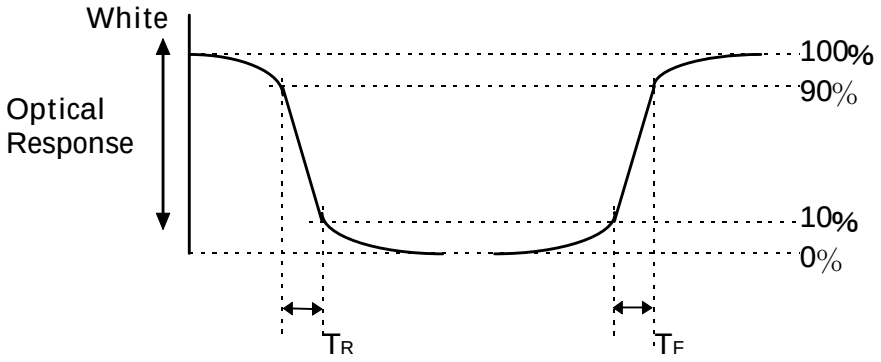
(Note 2) Viewing angle is measured as follows:



(Note 3) Definition of response time is as follows:

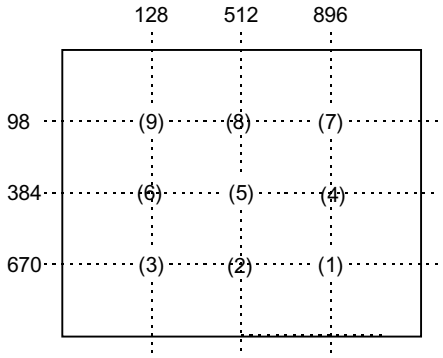
Response time is measured when the display data is changed from white to black.

White(TFT OFF)	Black(TFT ON)	White(TFT OFF)



(Note 4) Judge points for brightness uniformity

Brightness uniformity is judged at nine (9) points on display area:



$$BUNI = \frac{Bmin}{Bmax}$$

Bmax: Maximum Brightness

Bmin : Minimum Brightness

2.6.3. LCD Panel

Mechanical

Active Area (mm)	357.12 x 285.696
Pixel pitch (mm)	0.279 (0.093x3)
Mass typical (g)	2500
Panel dimensions (WxDxH) mm	404.0x322.2x20.2 mm(typ)
Resolution	1280 x 1024
Surface Treatment with Haze value	Anti-glare, 3H
Panel Model number	M180E1-L03 (18" TFT)
Panel Interfaces	Dual LVDS

Optical performance

Contrast ratio	500:1 Typical 400 :1 Minimum
Luminance of white(center)	250 nits Typical 200 nits Minimum
White Uniformity	80% (5 points measurement)
Chromaticity values (red, green, blue) center	'x = +/- 0.030 'y = +/- 0.030
Color temperature	'x = 0.310 +/- 0.030 'y = 0.330 +/- 0.030
EBU	70% Min
Colors	True 8 bits (16.7M)
Viewing Angle H, V (CR >10)	160 (Min)
Film	Not used wide viewing film
Response time ms	Typical Tr = 15ms ; Tf = 10ms Maximum Tr = 20ms; Tf = 15ms
Number of Back Light(CECIL)	6 – Edge type back light
Backlight (hrs)	50,000 hours minimum; 60,000 hours typical

2.7 Power Management

Unit will enter power saving mode under the following conditions:

Power Management condition and status

State	Signals			Power Supply	Video Circuit	LCD	LED
	Horizontal	Vertical	Video				
On	Pulses	Pulses	Active	On	On	On	Green
Stand-by	No Pulses	Pulses	Blanking		Off	Off	Amber
Suspend	Pulses	No Pulses					
Off	No Pulses	No Pulses					
Complete	N/A	N/A	N/A	Off			Off

2.8 FullScan Capability

When the input display mode is not 1280x1024,the image area is changed as follows:

Flex Scan Mode	Input display		Expanded Rate		Expanded Resolution
	Mode	Resolution	Horizontal	Vertical	
Expansion 1		640x350	2	2.93	1280x1024
Expansion 2		640x400	2	2.56	1280x1024
Expansion 3		640x480	2	2.13	1280x1024
Expansion 4		720x400	1.78	2.56	1280x1024
Expansion 5		800x600	1.6	1.71	1280x1024
Expansion 6		832x624	1.54	1.64	1280x1024
Expansion 7		1024x768	1.25	1.33	1280x1024
Expansion 8		1152x864	1.11	1.19	1280x1024
Standard		1280x1024	1	1	1280x1024

1.3 Mechanical Characteristics

3.1 Dimensions

Net: 435.0 (W) x 461.5 (H) x 180.6 (D) mm

Gross: 565.0 (W) x 525.0 (H) x 260.0 (D) mm

3.2 Weight

Net: 7.0Kg

Gross: 9.7Kg

3.3 Base Rotation

Tilt: up 20 ° / down 5 °

3.4 Labeling

3.4.1 ID Label (Paste on Rear Cover)

Material: Polyester's

Color: Black (same as plastic color) / White (Letter)

Size: 50 (W) X 25 (H) mm

Location: Rear Back Label

Contents: Appendix III

3.4.2 Bar Code Number Label (Carton Box)

Material: Art Paper

Color: White (Base) / Black (Letter)

Size: 76 (W) X 76 (H) mm

Location: Carton Box (Side Wall)

Contents: Appendix III

3.4.3 Serial Number Label (Rear Back Label)

Material: Art Paper

Color: White (Base) / Black (Letter)

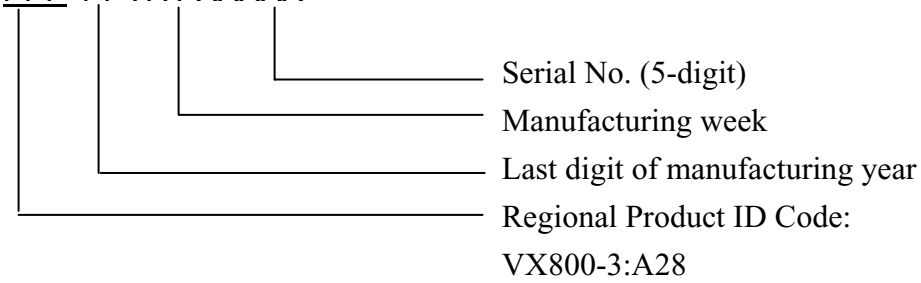
Size: 25 (W) X 50 (H) mm

Location: Paste on Rear Back Label

Contents: Appendix III

3.5 Serial Number Format

Serial No. PPP YY WW XXXXX



3.6 UPC Coding (Code 39 format)

Worldwide Model UPC Code: 766907 81271 8

1.4 Packaging

4.1 Carton Box

Dimensions:	565mm (W) x 525mm (H) x 260mm (D)
Color:	4-Color printing box
Material:	BC-FLUTE or Equivalent, double wall

1.5 Environmental Characteristics

5.1 Operating Conditions

Temperature:	0 through + 40° C
Humidity:	20% To 85% (39 degree welt bulb)
Altitude:	0 – 3,000 Meter

5.2 Non-operating Conditions

Temperature:	-20 through +60 ° C
Humidity:	5% To 85% (39 degree welt bulb)
Altitude:	0 – 12,000 meter

1.6 Factory setting

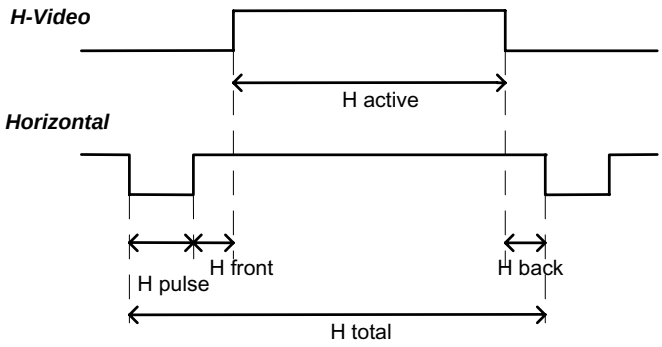
6.1 OSD

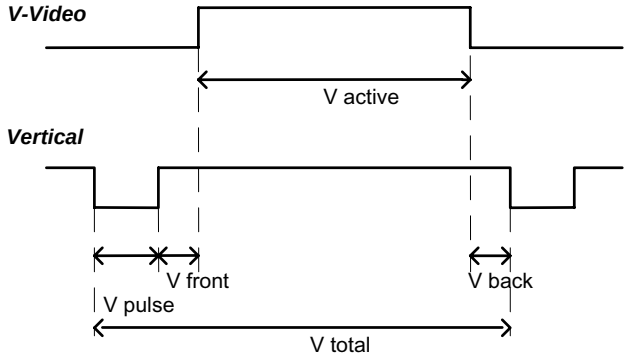
Brightness	100% (based on 0-100%)
Contrast	80% (based on 0-100%)
AutoTune	Executed
Color Temperature	6500k
Volume	50%
Balance	50%
Bass/Treble	50%
OSD Timeout	15 Sec
Language	English
OSD position	Center

6.2 Power Switch

OFF

Appendix I Preset Signal Timings





Analog Timing Mode Table

		1	2	3	4	5	6	7
Signal name	symbol	TEXT mode	TEXT mode	VGA	MAC-II	VESA-VGA	VESA-VGA	VESA-VGA
H-frequency (kHz)		31.468	31.469	31.468	35.001	37.5	37.862	43.269
V-frequency (Hz)		70.087	70.087	59.941	66.667	75	72.807	85.005
Pixel rate (MHz)		25.175	28.322	25.175	30.240	31.5	31.501	36.000
H-sync	Ths	96	108	96	64	64	40	56
H-back porch	Thb	48	54	48	96	120	128	80
Count num (H-total)	Thd	800	900	800	864	840	832	832
H- front porch	Thf	16	18	16	64	16	24	56
V-sync	Tvs	2	2	2	3	3	3	3
V-back porch	Tvb	60	35	33	39	16	28	25
Count num (V-total)	Tvd	449	449	525	525	500	520	509
V-front porch	Tvf	37	12	10	3	1	9	1
H-sync. Polarity		Positive	Negative	Negative	Negative	Negative	Negative	Negative
V-sync Polarity		Negative	Positive	Negative	Negative	Negative	Negative	Negative
H-resolution (dots)		640	720	640	640	640	640	640
V-resolution (lines)		350	400	480	480	480	480	480

		8	9	10	11	12	13	14
Signal name	Symbol	IBM-8514A	SVGA	SVGA	SVGA	SVGA	MAC 16"	XGA
H-frequency (kHz)		35.156	37.879	48.077	46.875	53.674	49.725	48.363
V-frequency (Hz)		56.250	60.317	72.188	75.000	85.061	74.5	60.004
Pixel rate (MHz)		36.000	40.000	50.000	49.500	56.250	57.283	65.000
H-sync	Ths	72	128	120	80	64	64	136
H-back porch	Thb	128	88	64	160	152	224	160
Count num (H-total)	Thd	1024	1056	1040	1056	1048	1152	1344
H- front porch	Thf	24	40	56	16	32	32	24

V-sync	Tvs	2	4	6	3	3	3	6
V-back porch	Tvb	22	23	23	21	27	39	29
Count num (V-total)	Tvd	625	628	666	625	631	667	806
V-front porch	Tvf	1	1	37	1	1	1	3
H-sync. Polarity		Negative	Positive	Positive	Positive	Positive	Negative	Negative
V-sync Polarity		Negative	Positive	Positive	Positive	Positive	Negative	Negative
H-resolution (dots)		800	800	800	800	800	832	1024
V-resolution (lines)		600	600	600	600	600	624	768

		15	**16**	**17**	**18**	**19**	**20**	**21**
Signal name	Symbol	XGA	XGA	XGA	XGA	SXGA	720P	SXGA
H-frequency (kHz)		56.476	58.099	60.023	68.677	63.981	79.976	45.000
V-frequency (Hz)		70.069	72.082	75.029	84.997	60.02	75.025	60.00
Pixel rate (MHz)		75.000	78.084	78.750	94.500	108	135	74.250
H-sync	Ths	136	136	96	96	112	40	144
H-back porch	Thb	144	160	176	208	248	270	248
Count num (H-total)	Thd	1328	1344	1312	1376	1688	1658	1688
H- front porch	Thf	24	24	16	48	48	60	16
V-sync	Tvs	6	6	3	3	3	5	3
V-back porch	Tvb	29	29	28	36	38	20	38
Count num (V-total)	Tvd	806	806	800	808	1066	750	1066
V-front porch	Tvf	3	3	1	1	1	5	1
H-sync. Polarity		Negative	Negative	Positive	Positive	Positive	Positive	Negative
V-sync Polarity		Negative	Negative	Positive	Positive	Positive	Positive	Negative
H-resolution (dots)		1024	1024	1024	1024	1280	1280	1280
V-resolution (lines)		768	768	768	768	1024	1024	720

Digital Timing Mode Table

		1	2	3	4	5	6	7
Signal name	symbol	TEXT mode	TEXT mode	VGA	VGA	VESA-VGA	VESA-VGA	VESA-VGA
H-frequency (kHz)		31.468	31.469	31.468	31.468	37.5	37.862	43.269
V-frequency (Hz)		70.087	70.087	60.000	59.941	75	72.807	85.005
Pixel rate (MHz)		25.175	28.322	25.175	25.175	31.5	31.501	36.000
H-sync	Ths	96	108	96	96	64	40	56
H-back porch	Thb	48	54	48	48	120	128	80
Count num (H-total)	Thd	800	900	800	800	840	832	832
H- front porch	Thf	16	18	16	16	16	24	56
V-sync	Tvs	2	2	2	2	3	3	3
V-back porch	Tvb	60	35	35	33	16	28	25
Count num (V-total)	Tvd	449	449	449	525	500	520	509
V-front porch	Tvf	37	12	10	6	1	9	1
H-sync. Polarity		Positive	Negative	Negative	Negative	Negative	Negative	Negative
V-sync Polarity		Negative	Positive	Negative	Negative	Negative	Negative	Negative
H-resolution (dots)		640	720	640	640	640	640	640
V-resolution (lines)		350	400	400	480	480	480	480

		8	9	10	11	12	13	14
Signal name	Symbol	IBM-8514A	SVGA	SVGA	SVGA	SVGA	XGA	XGA
H-frequency (kHz)		35.156	37.879	48.077	46.875	53.674	48.363	56.476
V-frequency (Hz)		56.250	60.317	72.188	75.000	85.061	60.004	70.069
Pixel rate (MHz)		36.000	40.000	50.000	49.500	56.250	65.000	75.000
H-sync	Ths	72	128	120	80	64	136	136
H-back porch	Thb	128	88	64	160	152	160	144
Count num (H-total)	Thd	1024	1056	1040	1056	1048	1344	1328
H- front porch	Thf	24	40	56	16	32	24	24

V-sync	Tvs	2	4	6	3	3	6	6
V-back porch	Tvb	22	23	23	21	27	29	29
Count num (V-total)	Tvd	625	628	666	625	631	806	806
V-front porch	Tvf	1	1	37	1	1	3	3
H-sync. Polarity		Negative	Positive	Positive	Positive	Positive	Negative	Negative
V-sync Polarity		Negative	Positive	Positive	Positive	Positive	Negative	Negative
H-resolution (dots)		800	800	800	800	800	1024	1024
V-resolution (lines)		600	600	600	600	600	768	768

		15	**16**	**17**	**18**	**19**
Signal name	Symbol	XGA	XGA	XGA	SXGA	HD-720P
H-frequency (kHz)		58.099	60.023	68.677	63.981	45.000
V-frequency (Hz)		72.082	75.029	84.997	60.02	60.00
Pixel rate (MHz)		78.084	78.750	94.500	108	74.250
H-sync	Ths	136	96	96	112	40
H-back porch	Thb	160	176	208	248	270
Count num (H-total)	Thd	1344	1312	1376	1688	1658
H- front porch	Thf	24	16	48	48	60
V-sync	Tvs	6	3	3	3	5
V-back porch	Tvb	29	28	36	38	20
Count num (V-total)	Tvd	806	800	808	1066	750
V-front porch	Tvf	3	1	1	1	5
H-sync. Polarity		Negative	Positive	Positive	Positive	Negative
V-sync Polarity		Negative	Positive	Positive	Positive	Negative
H-resolution (dots)		1024	1024	1024	1280	1280
V-resolution (lines)		768	768	768	1024	720

Appendix II EDID Code

Analog

128 BYTES OF EDID CODE:

	0	1	2	3	4	5	6	7	8	9
0	00	FF	FF	FF	FF	FF	FF	00	5A	63
10	11	F5	01	01	01	01	01	0C	01	03
20	0E	24	1D	78	2A	16	76	A2	5A	4B
30	97	24	18	4F	54	BF	EF	00	81	80
40	01	01	01	01	01	01	01	01	01	01
50	01	01	01	01	30	2A	00	98	51	00
60	2A	40	30	70	13	00	65	1E	11	00
70	00	1E	00	00	00	FF	00	41	32	38
80	30	32	30	31	30	30	30	30	31	0A
90	00	00	00	FD	00	32	4B	1E	53	0E
100	00	0A	20	20	20	20	20	20	00	00
110	00	FC	00	56	58	38	30	30	2D	33
120	0A	20	20	20	20	20	00	AE		

Digital

128 BYTES OF EDID CODE:

	0	1	2	3	4	5	6	7	8	9
0	00	FF	FF	FF	FF	FF	FF	00	5A	63
10	11	F5	01	01	01	01	01	0C	01	03
20	80	24	1D	78	2A	16	76	A2	5A	4B
30	97	24	18	4F	54	BF	EF	00	81	80
40	31	0A	01	01	01	01	01	01	01	01
50	01	01	01	01	30	2A	00	98	51	00
60	2A	40	30	70	13	00	65	1E	11	00
70	00	1E	00	00	00	FF	00	41	32	38
80	30	32	30	31	30	30	30	30	31	0A
90	00	00	00	FD	00	32	4B	1E	53	0E
100	00	0A	20	20	20	20	20	20	00	00
110	00	FC	00	56	58	38	30	30	2D	33
120	0A	20	20	20	20	20	00	03		

Appendix III Label Printing

ID LABEL

Bar Code label/Serial No Label

ViewSonic VX800

Model Number: VLCDS26105-1

Serial Number: A28YYWWnnnnn

ViewSonic
VX800

UPC

7 66907 81271 8

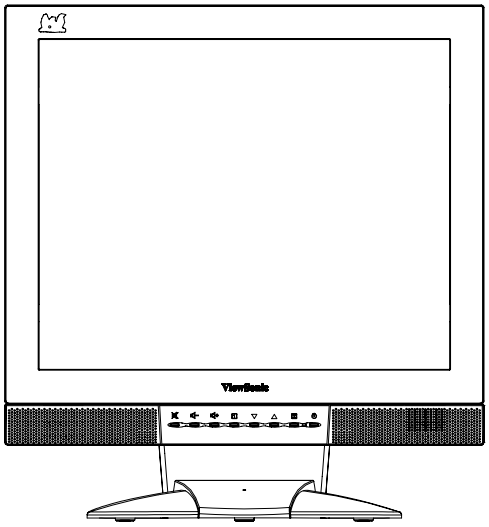
MODEL NUMBER: VLCDS26105-1W

SERIAL NUMBER: A28YYWWnnnnn

(M) Made In China

3

2. Front Panel Function Control Description



2.1 User control functions

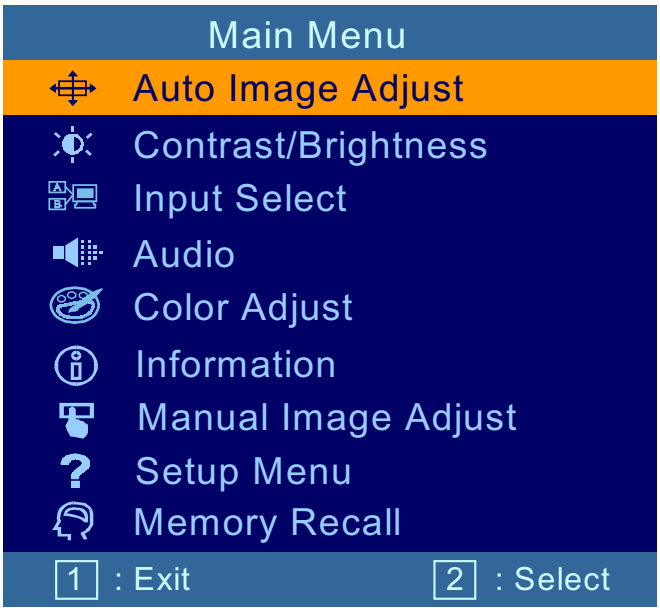
Control buttons:

1. Press power button to power on LCD monitor. Led on the power button will turn to green.
2. Press ‘2” button while no OSD will toggle the digital input port and analog input port to display.
3. Press “up” and ‘down” button simultaneously will reset the contrast and brightness to default.
4. Press ‘1” button will enter OSD main menu.
5. Press “volume plus”, “volume minus” can directly adjust the audio volume.
6. Press “mute” button can directly mute on or off the audio volume.

2.2 OSD Operation Flow

The following steps show how to access the **Main Menu, Submenus,** and controls within each **Submenu.** Details on the controls follow the steps listed below.
Note: Any OSD setting will only save after user totally exit OSD menu.

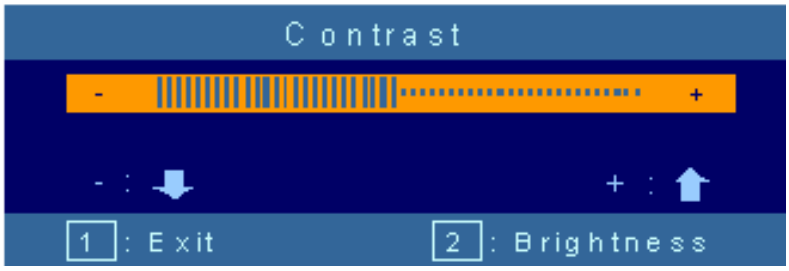
1 Press the [1] button to display the Main Menu shown below.
2 Press the [▼] or [▲] button to scroll to the desired menu option.
3 Press the [2] button to select the menu option.
4 Press the [▼] or [▲] button to select submenu option.
5 After making adjustments, press the [1] button exit the screen, must exit the OSD to save the settings.



Auto Image Adjust automatically sizes, centers, and fine tunes the video signal to eliminate waviness and distortion. Press the [2] button to confirm to do auto adjust.

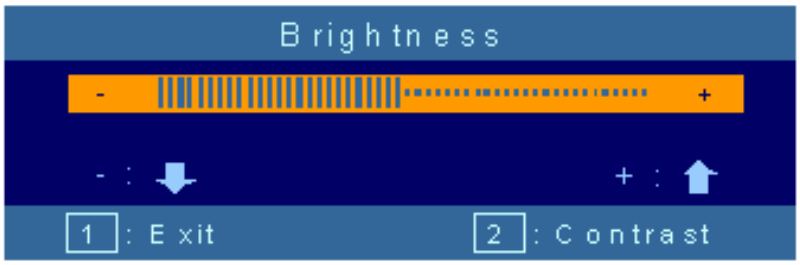
NOTE: Auto Image Adjust works with most common video card. If using the function Does not work on your LCD Display, Lower the video refresh rate to 60 Hz and try again. (See computer or graphic card user guide to adjust refresh rate.) The panel may be manually tuned using the horizontal and vertical phase controls shown below.

Contrasts adjust foreground white level of screen image.
[▲] increase contrast, [▼] decease contrast.



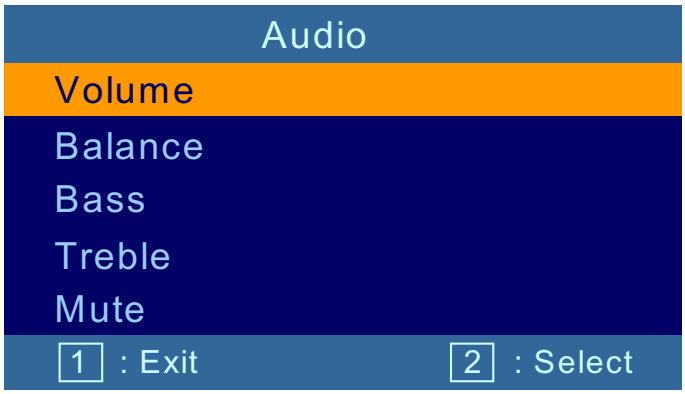
Shortcut: Before displaying the OnView menu, press the [▼] or [▲] button to adjust. Press button [2] to toggle between brightness and contrast.

Brightness adjusts backlight brightness level of screen image.
[▲] increase brightness, [▼] decease brightness.

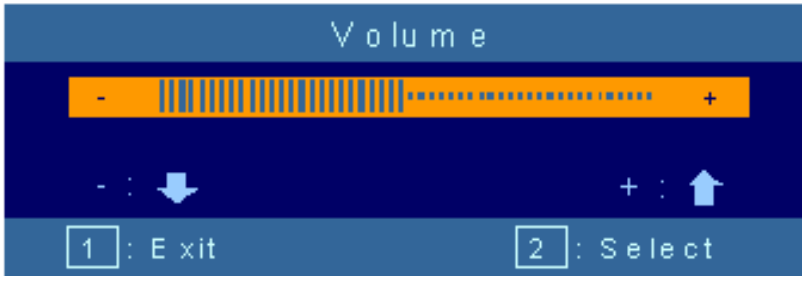


Input Select press [▼] or [▲] button to select Input Source.

Audio press [▼] or [▲] button to scroll desired menu option.
Press [2] button to select submenu option.

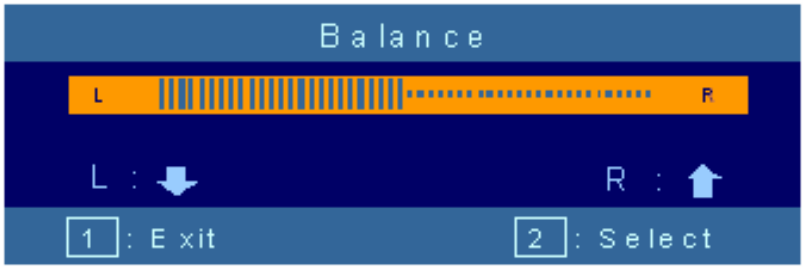


Volume increase the volume, decreases the volume,



Balance adjusts the proportion of sound coming from each speaker.

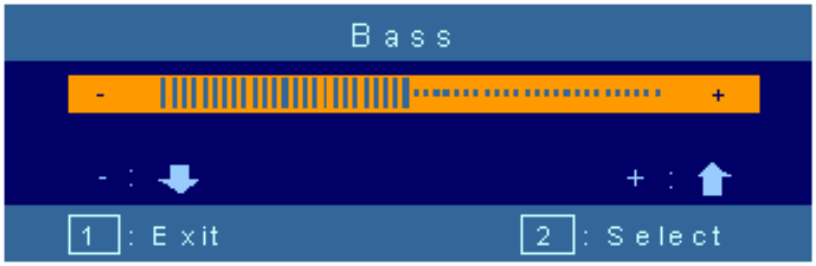
[▼] directs more of the sound to the left speaker; [▲] directs more of the sound to the right speaker.



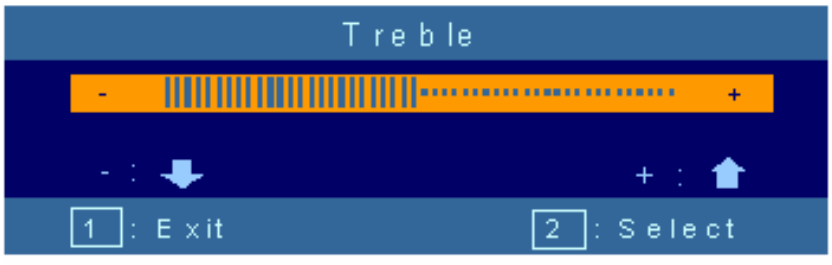
Bass/Treble adjusts the high (treble) and low (bass) frequency audio output

Press [2] button to select bass adjustment.

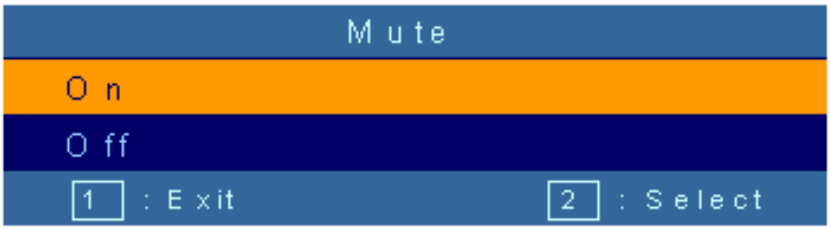
Bass press [▼] or [▲] to adjust bass.



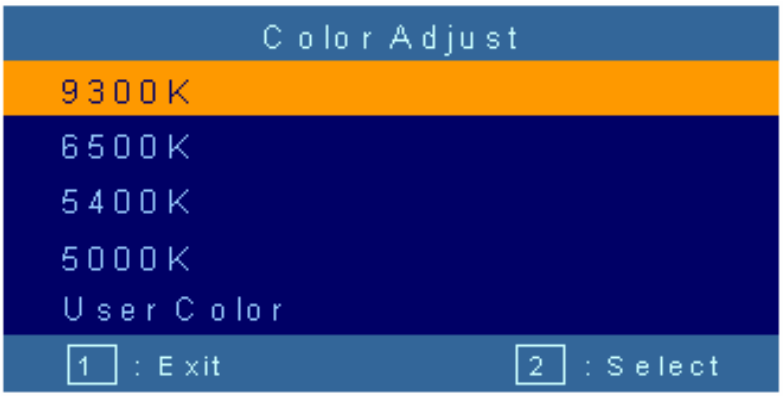
Treble press [▼] or [▲] to adjust treble.



Mute



Color Adjust



Color Adjust provides four preset color adjustment: *9300K, 6500K, 5400K, 5000K* for improved brightness and color saturation. Press button [2] to select the preset color. Press button [▼] or [▲] to fine tune the color response.

9300K—Adds blue to screen image for cooler white (used in most office settings with fluorescent lighting).

6500K—Adds red to screen image for warmer white and richer red.

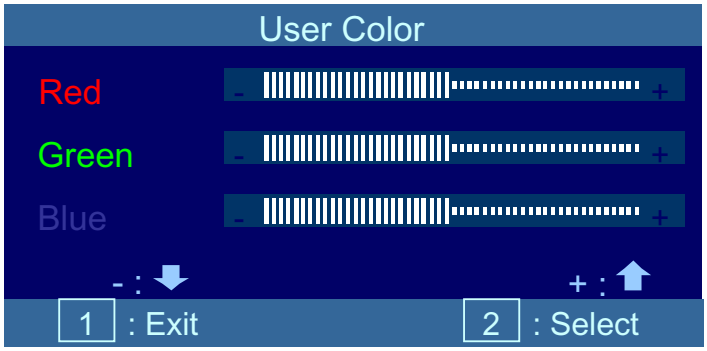
5400K—Adds green to screen image for a darker color.

5000K—Adds blue and green to screen image for a darker color.

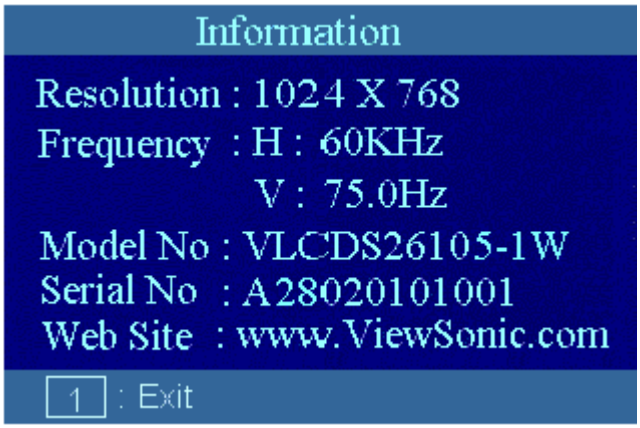
User color—Individual adjustments for red (R), green (G), blue (B).

1 To adjust selected color, press [▼] or [▲].

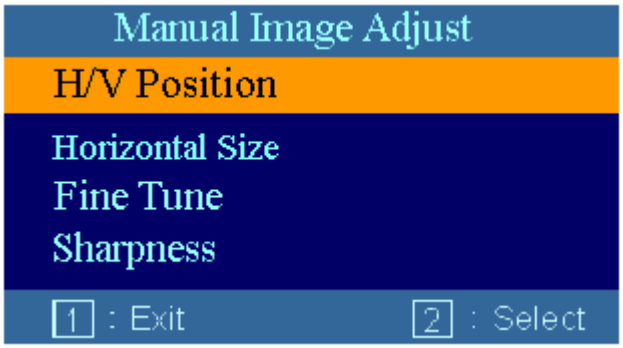
2 Press button [2] to set adjustment and select next color to adjust.



Information



Manual Image Adjust

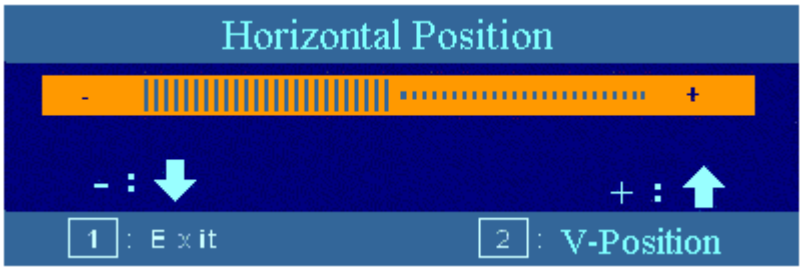


H/V Position Press the [2] button to select H-Position or V-Position.

H-Position moves screen image left or right.

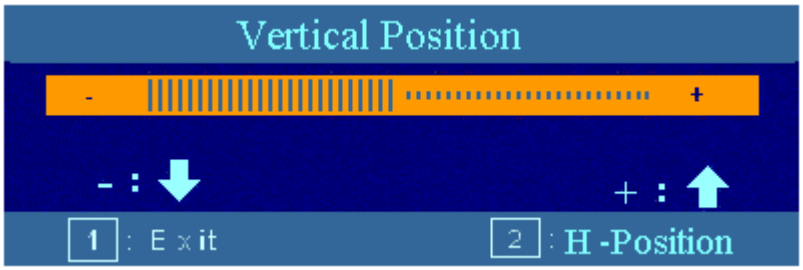
[▼] move screen image to *left*, [▲] moves screen image to *right*.

Press the [2] button to toggle between H. or V. Position.

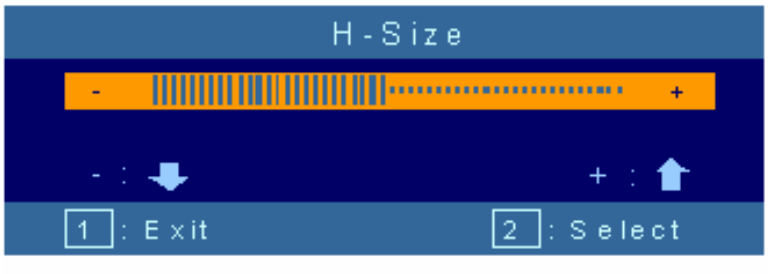


V-Position moves screen image up or down.

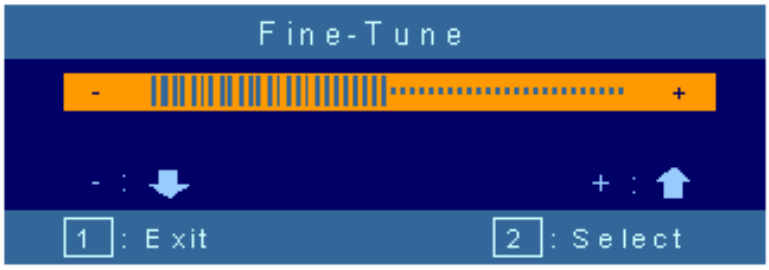
[▼] move screen image *down*, [▲] moves screen image *up*.



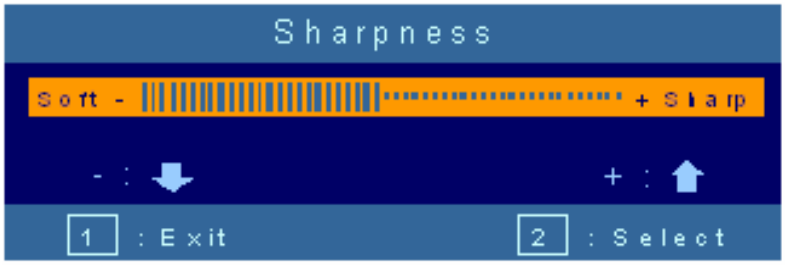
H-Size adjusts the width of screen image. [▼] decreases Width of screen image, [▲] increases width of image.



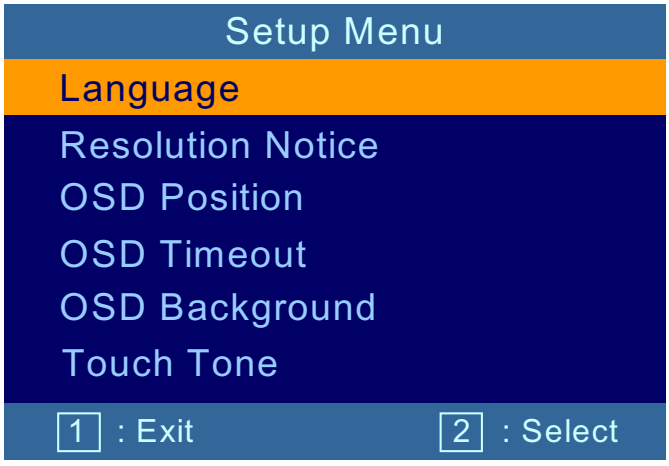
Fine-Tune



Sharpness adjusts the clarity of a non-SXGA (1280 x 1024) RGB signal Press [▼] or [▲] to adjust.

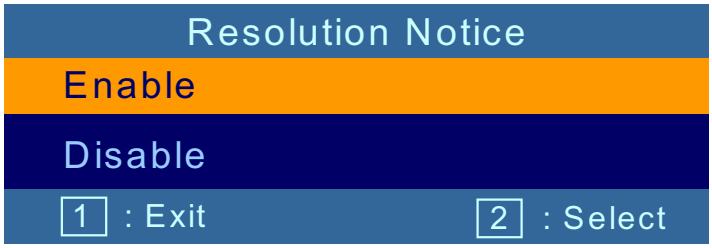


Setup Menu

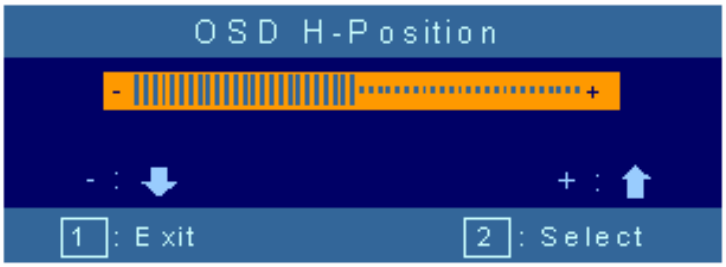


Language Select allows the user to choose from available languages.

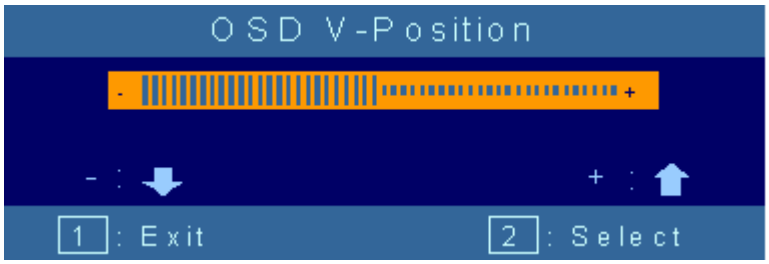
Resolution Notice presses the [▼] or [▲] button to select the Enable or Disable the Resolution Notice.



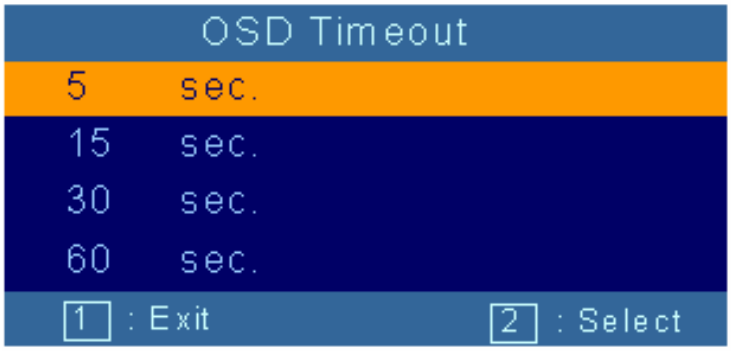
OSD Position press the [2] button to select the OSD H-Position or OSD V-Position.
OSD H-Position [▼] moves OSD left; [▲] moves the OSD right.



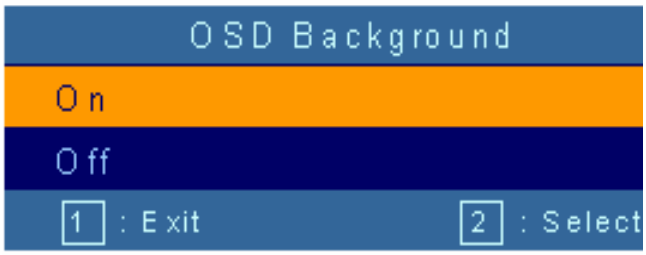
OSD V-Position [▼] moves OSD down; [▲] moves the OSD up.



OSD Timeout sets the length of time the Onscreen Display screen is displayed before exiting.



OSD Background



Memory Recall

Returns the adjustments back to factory settings (only if the LCD display is operating in a factory preset mode).

Press the [2] button to select the Memory Recall menu option.

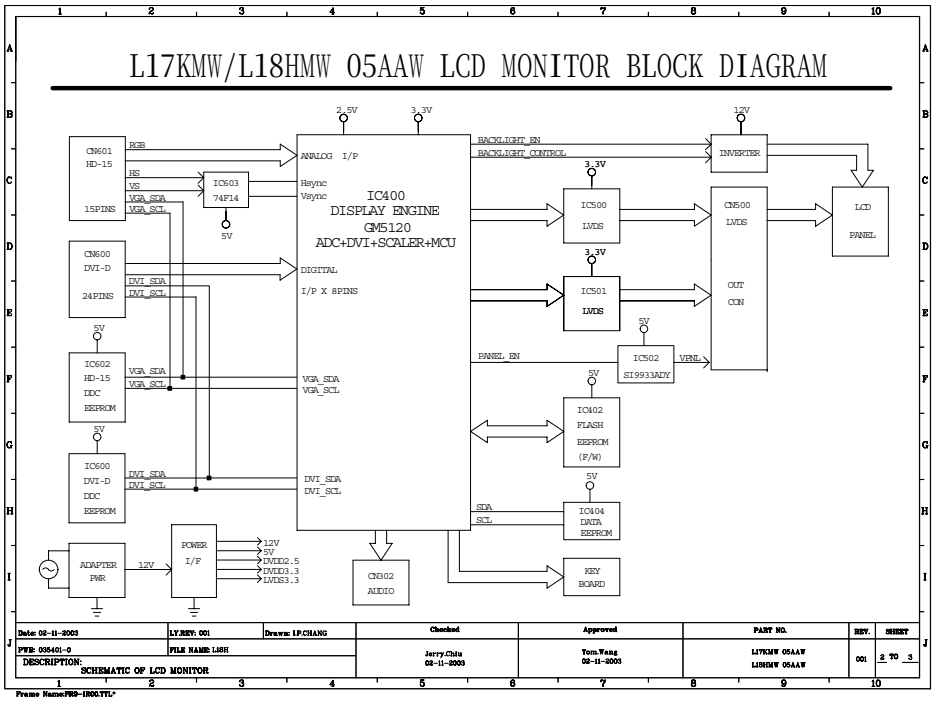
Note:

OSD Controls

Auto Image Adjust*, Contrast/Brightness, Input Select, Color Adjust [9300K, 6500K(default), 5400, 5000, R, G, B], Information [Mode, Model Number, Serial Number], Manual Image Adjust [H. Size*, H. Position*, V. Position*, Fine Tune*, Sharpness], Setup Menu [Language, Resolution Notice, OSD Position, OSD Timeout, OSD Background], Memory Recall *** These functions are not available in Digital Mode.** **Memory Recall is to recall the following functions to factory setting:** Contrast, Brightness, H Size, H/V Position, Color Temperature @ 6500K, OSD Position, Sharpness, & OSD Timeout.

OSD Auto Save

The OSD shall save new settings when it is turned off by the user or when it times out. There shall not be a separate save.


L17KMW/L18HMW 05AAW LCD MONITOR BLOCK DIAGRAM
2.5V
3.3V
12V
CN601
HD-15
15PINS
RGB
HS
VS
VGA_SDA
VGA_SCL
IC603
74F14
5V
ANALOG I/P
Hsync
Vsync
IC400
DISPLAY ENGINE
GM5120
ADC+DVI+SCALER+MCU
CN600
DVI-D
24PINS
DVI_SDA
DVI_SCL
DIGITAL
I/P X 8PINS
IC602
HD-15
DDC
EEPROM
IC600
DVI-D
DDC
EEPROM
ADAPTER
PWR
12V
POWER
I/F
12V
5V
LVDD2.5
LVDD3.3
LVDS3.3
CN302
AUDIO
BACKLIGHT_EN
BACKLIGHT_CONTROL
INVERTER
IC500
LVDS
IC501
LVDS
CN500
LVDS
OUT
CON
LCD
PANEL
PANEL_EN
IC502
SI9933ADY
VRNL
IC402
FLASH
EEPROM
(F/W)
IC404
DATA
EEPROM
SDA
SCL
KEY
BOARD
Date: 02-11-2003
LY.REV: 001
Drawn: LP.CHANG
Checked
Approved
PART NO.
REV.
SHEET
PWB 035401-0
FILE NAME L48H
Jerry.Chiu
02-11-2003
Tom.Wang
02-11-2003
L17KMW 05AAW
L18HMW 05AAW
001
2 TO 3
DESCRIPTION:
SCHEMATIC OF LCD MONITOR
Frame Name:FRS-1R00.TTL*

3.1. Interface Board

1.1 Power Supply (DC/DC Converter)

IC100 is a linear regulator that converts a 12V DC input voltage into regulated and stable output voltages of 5V respectively.

1.2 Micro-Controller

IC400 (scaler) built-in a micro-controller and extra a flash ROM (IC402---39SF010). It plays a major role in the digital control of the LCD monitor. IC400 acts as a Key control, DPMS power saving control, auto-detect controller, and controller of IC400 to do image process.

Pin 114 controls Inverter enable or disable
Pin 113 enable vcc for panel
Pin 125 send a HI signal when audio is invalid
send a LOW signal when audio is valid
pin 5 receive HI signal from IC401 pin 3 to reset
Pin 1, 4, 39, 43, 46, 47, 125, 206 make key function operate when press key button (receive LOW signal from key button.)
Pin 51, 52 communicate with IC404 (EEPROM) by I^2C
Pin 48 detect audio in
Pin 51, 52 do ISP (in-system program)
Pin 40 controls the brightness of panel
Pin 41, 42 controls LED (orange and green) on /off
Pin 123 control audio boards 12V on/off
Pin 126 control IC500, IC501 (LVDS Transmitter) on/off.

1.3. Image Processor

IC400 (gm5120) is an all-in-one image processor for displays with a dual (analog and digital) interface supporting resolutions up to SXGA. It provides integrated ADC/PLL and a DVI compliant TMDS receiver and MCU, a high quality zoom and shrink scaling engine, an on-screen display (OSD) controller, a microprocessor and many other functions in a single device. This high level of integration enables simple, flexible, cost-effective solutions featuring fewer required components.

The gm5120 chip has three ADC's (analog-to-digital converters), one for each color (red, green, and blue) and supports digital separate sync (HSYNC/VSYNC), digital composite sync, and analog composite sync (also known as sync-on-green, or SOG). All sync types are supported without the need for external sync separation / extraction circuits.

The gm5120 features four clock inputs. All additional clocks are internal clocks derived from one or more of these four, using Direct Digital Synthesis (DDS).

TCLK is generated using an external crystal (recommended) or an external clock oscillator. (1) Input Clock (TCLK). The external connection to the oscillator is via the TCLK and XTAL pads. A 14.3MHz crystal source is recommended, as internal PLL and logic circuits derive the required clock frequencies from this single source by default. Other crystal frequencies may be used, but require custom bootstrapping and programming. In lieu of using a crystal oscillator, XTAL can be driven by a single-ended TTL/CMOS input clock (e.g. for testing of the IC) – the TCLK pin should be grounded through a 2.7k pull down resistor to maintain the correct duty cycle for the clock.

(2) TMDS Differential Input Clock (RC+ and RC-)
(3) Video Clock (VCLK) input pin
(4) Host Interface Transfer Clock (HCLK for 6-Wire nibble; SCL for 2-wire serial)

The gm5120 has an Input Format Measurement block (the IFM) providing the capability of measuring the horizontal and vertical timing parameters of the input video source. This information may be used to determine the video format and to detect a change in the input format. It is also capable of detecting the field type of interlaced formats.

The IFM features a host programmable reset, separate from the regular gm5120 soft reset. This reset disables the IFM, reducing power consumption. The IFM is capable of operating while gm5120 is running in power down mode.

Horizontal measurements are measured in terms of the selected IFM_CLK (either T_CLK or R_CLK/4), while vertical measurements are measured in terms of HSYNC pulses.

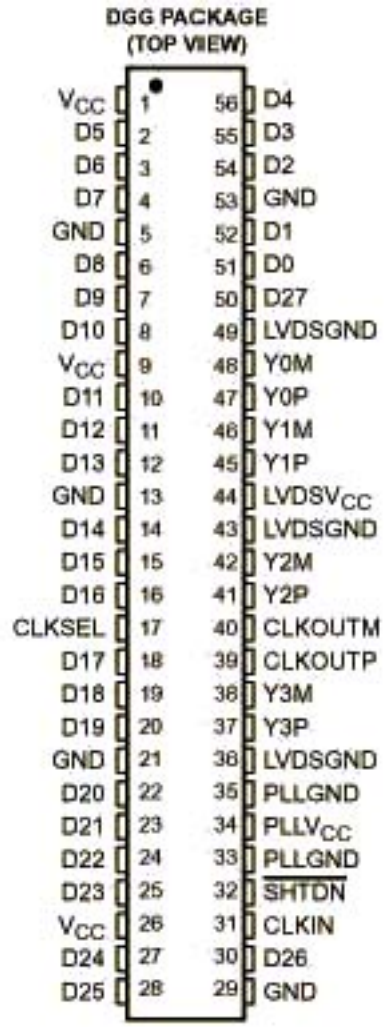
The gm5120 OSD controller supports both character-mapped and bitmapped modes. A user programmable palette of 256 true colors (255 colors, + 1 transparent) is available. In character mapped mode, a maximum of four colors per character are available. In 8-bit bitmapped mode, any pixel can be assigned any one of 256 user-defined true colors. In 4-bit bitmapped mode, any pixel can be assigned any one of 16 user-defined true colors (15 colors plus one transparent).

The gm5120 incorporates an embedded microprocessor, or OCM (On-Chip Microprocessor).This processor is intended to simplify the gm5120 system software implementation by providing embedded macro functions such as OSD menu configurations. It is not intended to replace the system microprocessor.

An arbitration mechanism handles the register access requests from the OCM and the system. micro.

1.4 LVDS Transmitter

IC500, 501 (SN75LVDS83) FlatLink transmitters contains four 7-bit parallel-load serial-out shift registers, a . clock synthesizer, and five low-voltage differential-signaling (LVDS) line drivers in a single integrated circuit. These functions allow 28 bits of single-ended low-voltage TTL (LVTTL) data to be synchronously transmitted over five balanced-pair conductors for receipt by a compatible receiver,



When transmitting, data bits D0 through D27 are each loaded into registers upon the edge of the input clock signal (CLKIN). The rising or falling edge of the clock can be selected by way of the clock select (CLKSEL) terminal. The frequency of CLKIN is multiplied seven times ( ) and then used to unload the data registers in 7-bit slices and serially. The four serial streams and a phase-locked clock (CLKOUT) are then output to LVDS output drivers. The frequency of CLKOUT is the same as the input clock, CLKIN.

The SN75LVDS83 requires no external components and little or no control. The data bus appears the same at the input to the transmitter and output of the receiver with the data transmission transparent to the user. The only user intervention is the possible use of the shutdown/clear (SHTDN) active-low input to inhibit the clock and shut off the LVDS output drivers for lower power consumption. A low-level signal on SHTDN clears all internal registers to a low level.

1.5 DDC 1/2 B

IC600 (24LC02) & IC602 (24LC21A) can continuously transmit its extended identification, “EDID” using DDC1 communication channel. In addition, the monitor can respond to a request for EDID, or complete VDIF, to be transmitted using DDC2, level B commands. Pin6 SCL is clock input for DDC 2B, pin5 SDA for data input, and pin7 VCLK is clock input for DDC1.

In DDC1 data transfer (UNI-directional mode), the VCLK input pin is used as an input clock for data transmission and SDA output pin is used as serial data line the SCL pin will hold high. The DDC2B node (BI-directional mode) BUS consists of two wires. SCL is for the data transmission clock and SDA is for the data line.

3.2 Audio Board

2.1 Audio processor

ICA2 (PT2313L) is a four-channel digital audio processor utilizing CMOS Technology .Volume, Bass, Treble, Balance, Front/Rear Fader Processor are incorporated into a single chip. Loudness function and Selectable input gain are also provided to build a highly effective electronic Audio processor having the highest performance and reliability with the least external components. And all functions are programmable using the IIC BUS

PIN#	PIN NAME	I/O	DESCRIPTION
1	REF	-	Analog reference voltage(1/2 VDD)
2	VDD	-	Supply input voltage
3	Agnd	-	Analog ground
4	Treb_L	I	Left channel input for treble control
5	Treb_R	I	Right channel input for treble control
6	RIN	I	Audio processor right channel input
7	Rout	O	Gain output&input selector for right channel
8	Loud_R	I	Right channel loudness input
9	Rin 3	I	Right channel input 3
10	Rin 2	I	Right channel input 2
11	Rin 1	I	Right channel input 1
12	Loud_L	I	Left channel loudness input
13	Lin 3	I	Light channel input 3
14	Lin 2	I	Light channel input 2
15	Lin 1	I	Light channel input 1
16	LIN	I	Audio processor left channel input
17	Lout	O	Gain output and input selector for left channel

18	Bin _L	I	Left bass controller input channel
19	Bout _L	O	Left bass controller output channel
20	Bin _R	I	Right bass controller input channel
21	Bout _R	O	Right bass controller output channel
22	RRout	O	Right rear speaker output
23	LRout	O	Left rear speaker output
24	RFout	O	Right front speaker output
25	LFout	O	Left front speaker output
26	Dgnd	-	Digital ground
27	Date	I	IIC Date
28	Clk	I	IIC Clk

ICA1 control & regulate the voltage (12Vto9V) to the ICA2

Volume signal through ICA2 pin24 (right) pin25 (left) into audio amplifier ICA3

2.2 Audio amplifier:

ICA3 (TDA1517) is an integrated class-B dual output amplifier; it contains two identical amplifier differential input stages. The gain of each amplifier is fixed at 20 dB.

Pins 1 and 9 are right and left channel inputs respectively. Pins 4 and 6 are right and left channel outputs which connect to two 8 OHM speakers.

Pin 8 is the mute/stand-by
Pin 7 is the voltage input for ICA1

4. Troubleshooting Flow Chart

4.1 Figure of Waveform

FIG 1. 12V

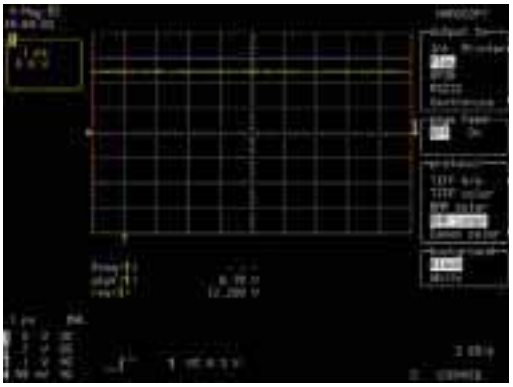


FIG 2. 5V

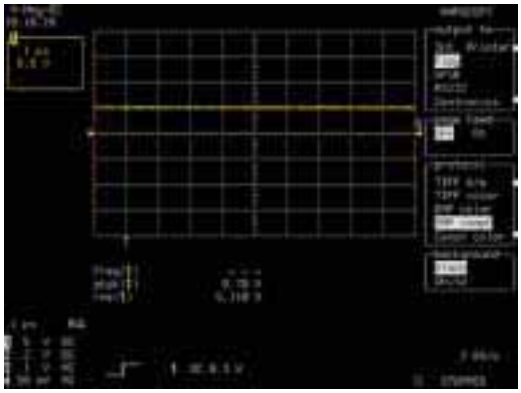


FIG 3. 3.3V

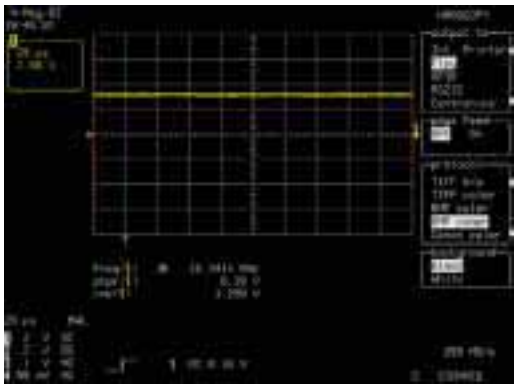


FIG 4. 2.5V

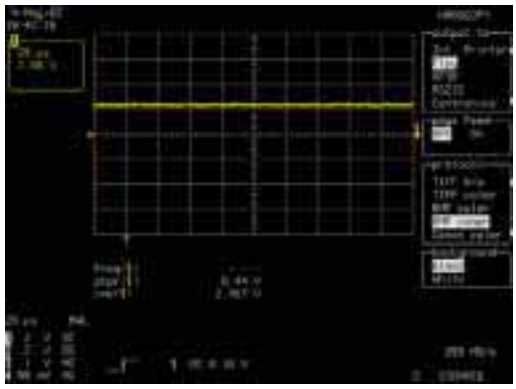


FIG 5. 32 GRAY SIGNAL INPUT

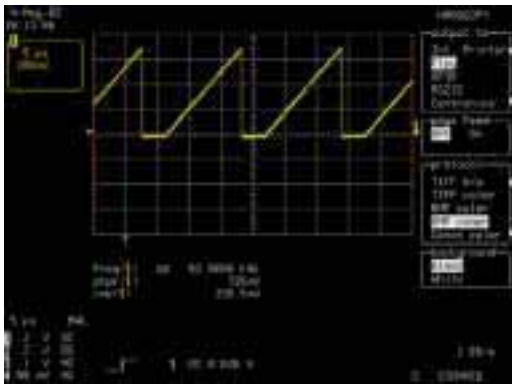


FIG 6. H-SYNC

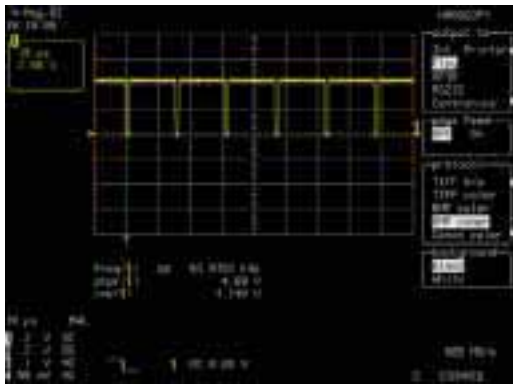


FIG 7. V-SYNC

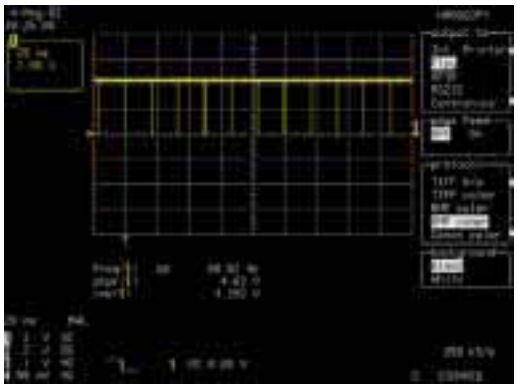


FIG 8. 14.3M CLOCK

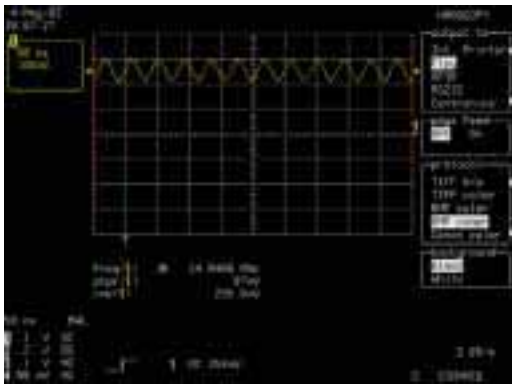


FIG 9. DISPLAY CLOCK

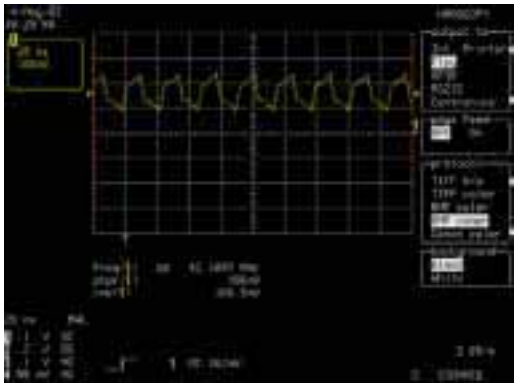


FIG 10. DISPLAY H-SYNC

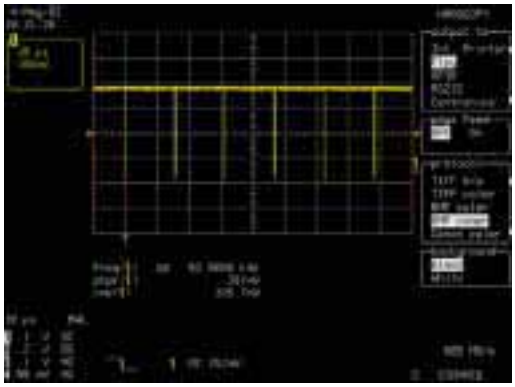


FIG 11. DISPLAY V-SYNC

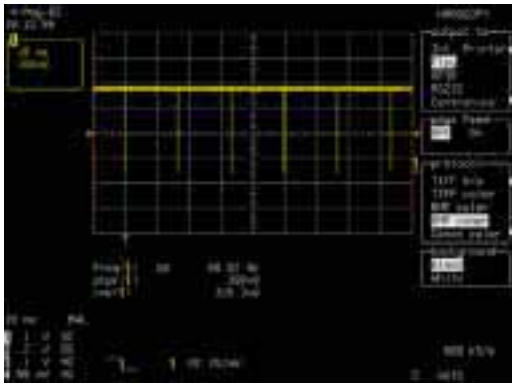


FIG 12. DISPLAY ENABLE

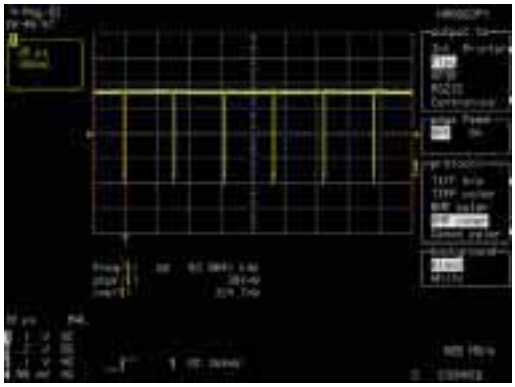


FIG 13. LVDS TX0+

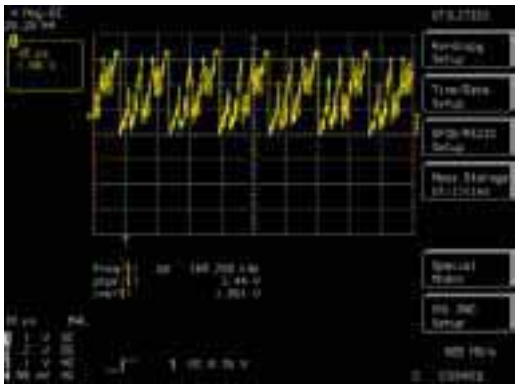


FIG 14. LVDS TX0-

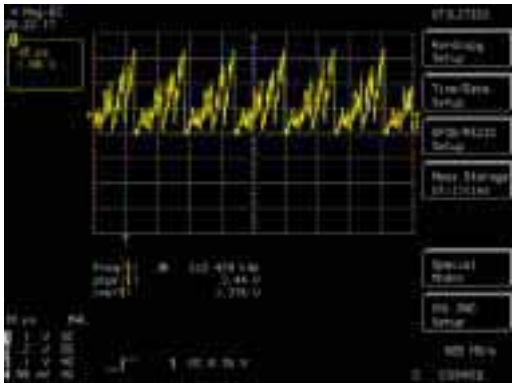


FIG 15. LVDS CLOCK+

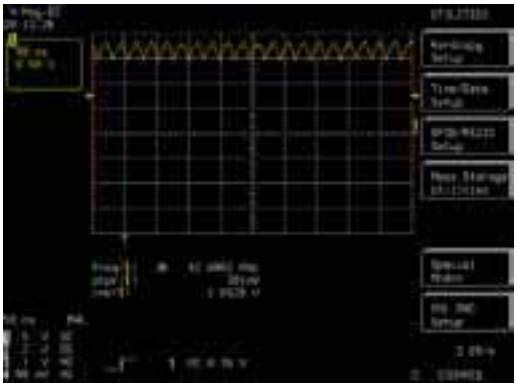


FIG 16. LVDS CLOCK-

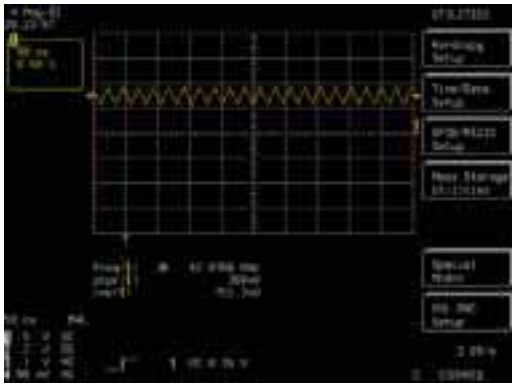


FIG 17. AUDIO SINE SIGNAL IN

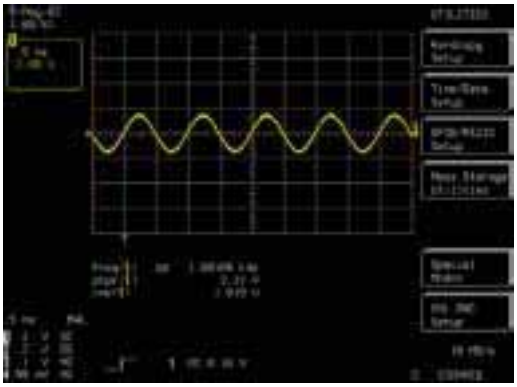
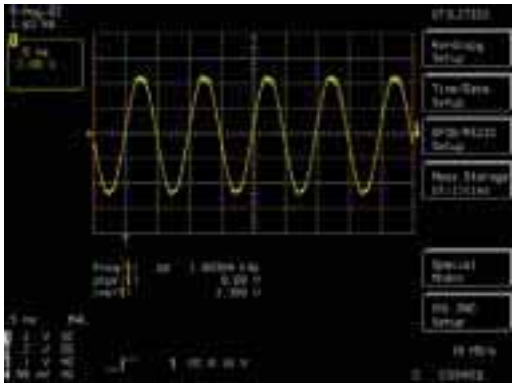
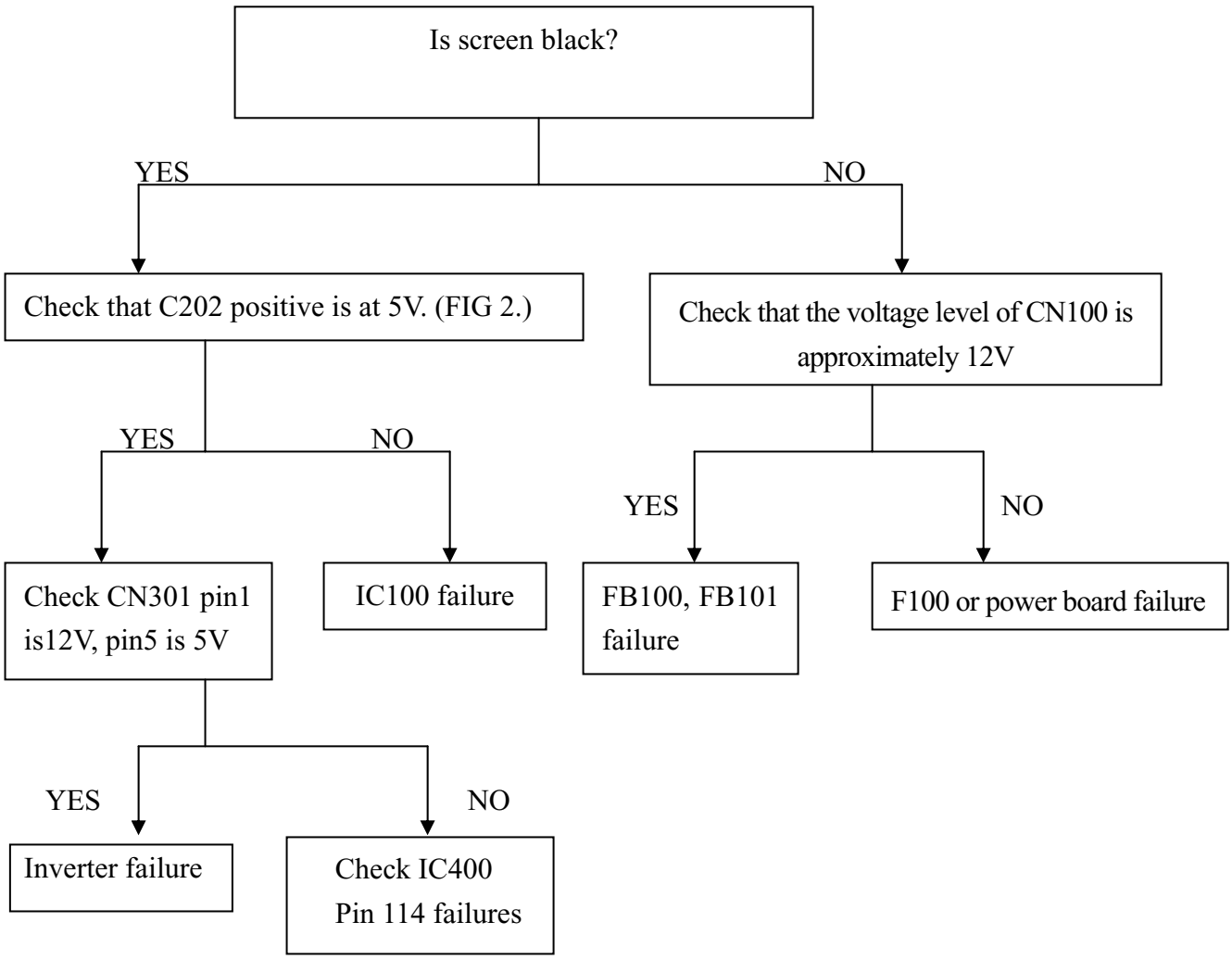


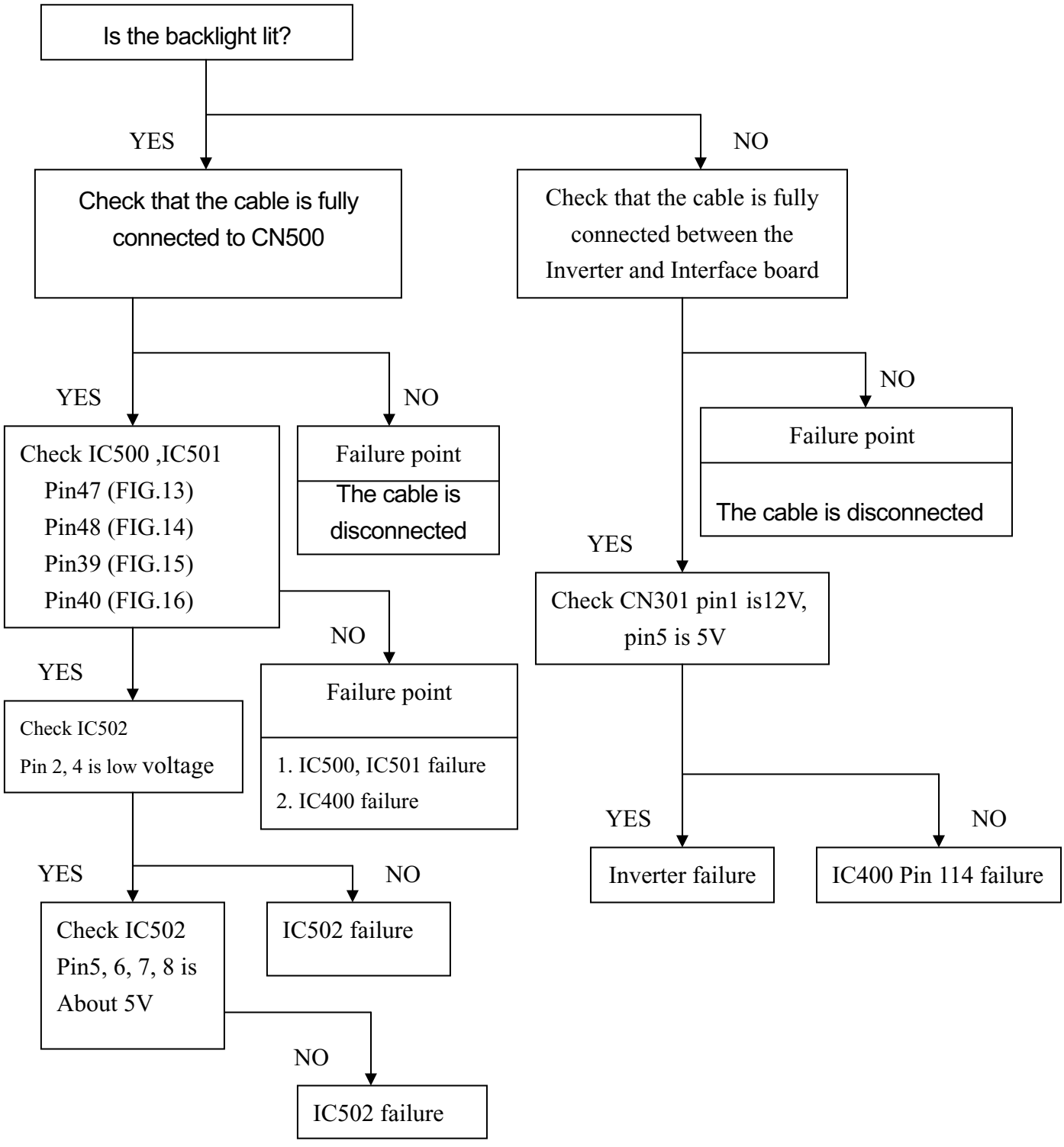
FIG 18. AUDIO SINE SIGNAL OUT



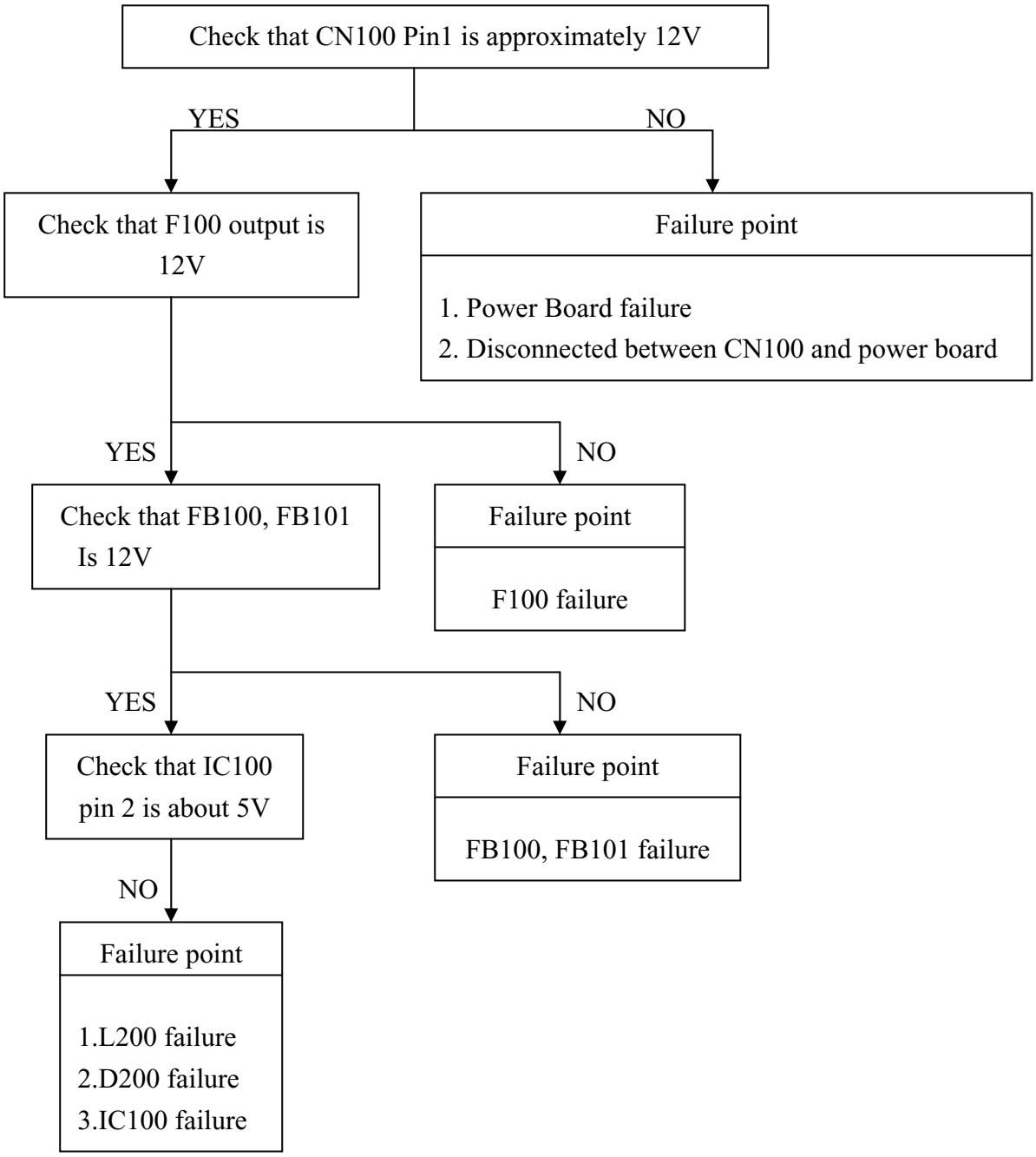
4.2 No Display on Screen (Screen is black, LED is off)



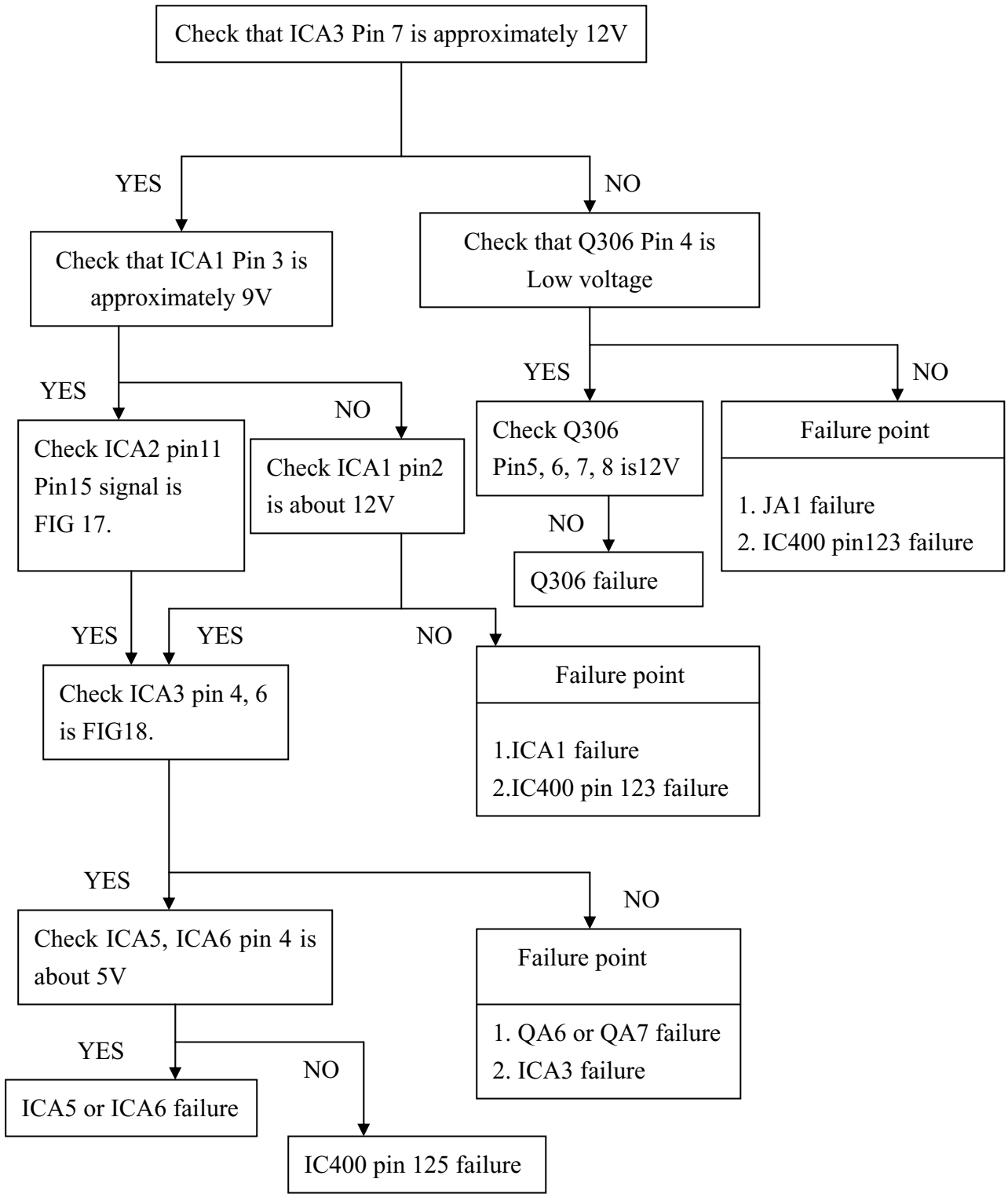
4.3 No Display on Screen (LED is green)



4.4 No Power On

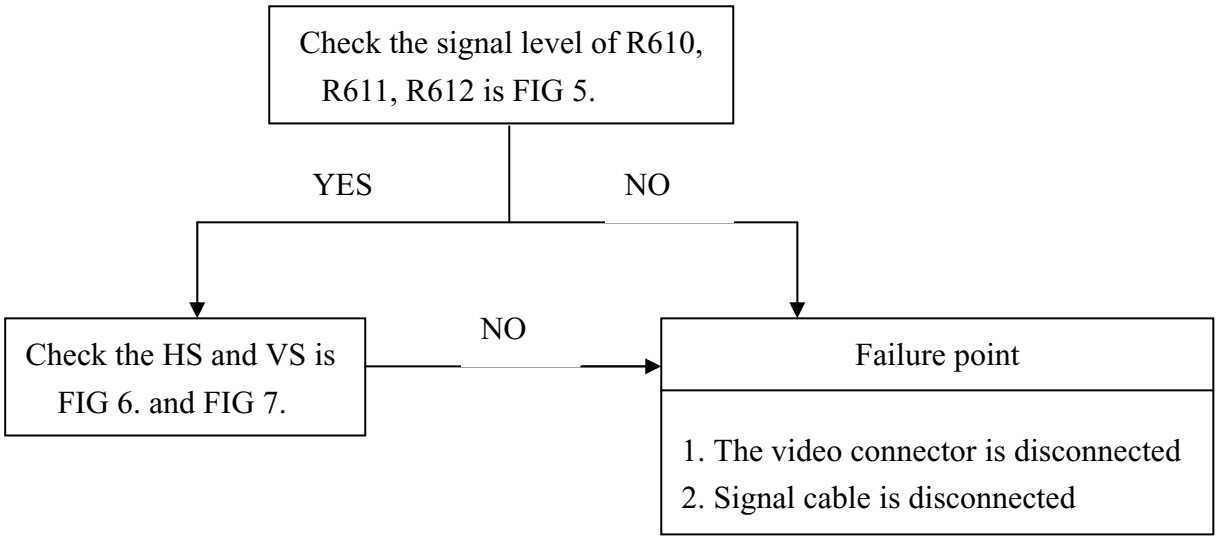


4.5 No Sound (Test signal: 1r.m.s sine waveform)

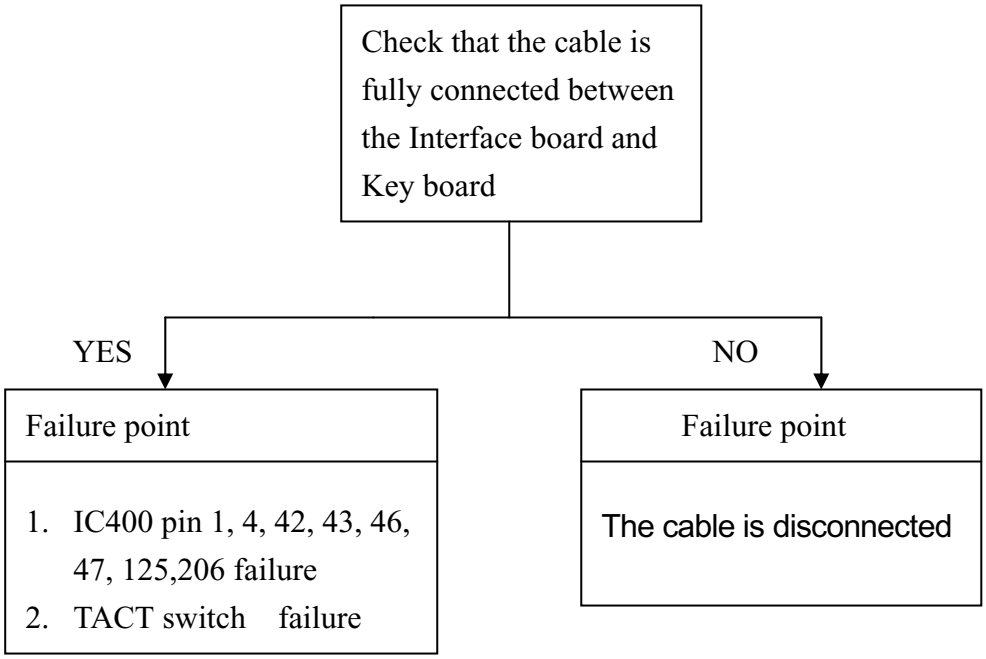


4.6 Show “No Signal” on screen

(Test pattern: 32 gray 1280X1024 60HZ)


Check the signal level of R610, R611, R612 is FIG 5.
YES
NO
Check the HS and VS is FIG 6. and FIG 7.
NO
Failure point
1. The video connector is disconnected
2. Signal cable is disconnected

4.7 Keypad can not work


Check that the cable is fully connected between the Interface board and Key board
YES
NO
Failure point
1. IC400 pin 1, 4, 42, 43, 46, 47, 125,206 failure
2. TACT switch failure
Failure point
The cable is disconnected

5. Adjust Procedure

CONTENTS

A. INSTRUMENT ALIGNMENT
1. PREPARATION OF MANUAL ALIGNMENT
2. COLOR TEMPERATURE ALIGNMENT
3. FACTORY PRESET SETTING

5.1 Preparation of Manual Alignment

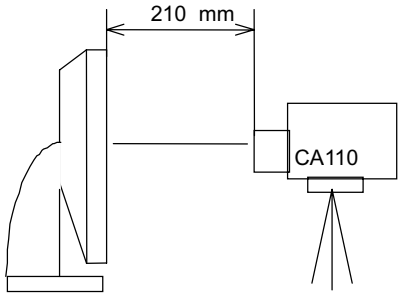
1.1 The alignment procedure is performed after unit has been completely assembled and before set inspection.

1.2 Before Alignment, set should be burned-in for over 30min.

1.3 measuring equipment used

Pre-programmed chroma 2226 or equivalent products.

Color meter-- Minolta CA210 or equivalent products.



1.4 methods to enter/exit factory mode

1.4.1 Press “2” and “down” key and power on to set the monitor to the burn-in mode.

1.4.2 Press “VOL-” and “1” key and power on to set the monitor to the factory mode.

1.4.3 To ensure the monitor is under factory mode, check the status in the OSD menu screen.

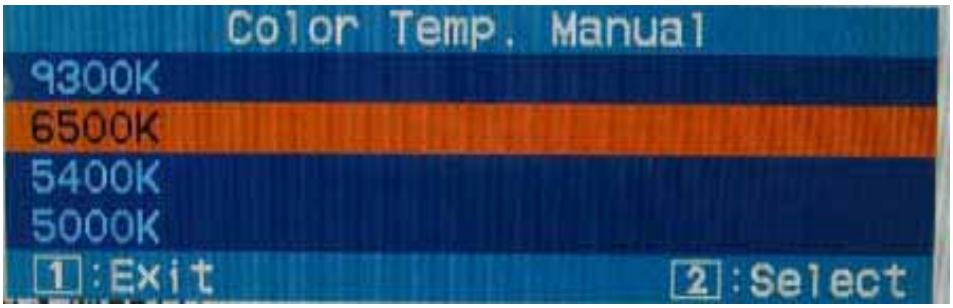
Otherwise, follow the procedure

described in session 1.4.1 to enter the factory mode again

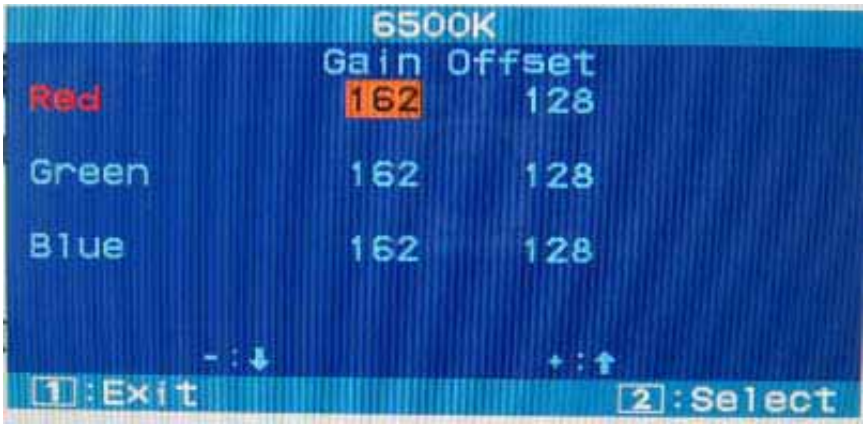
1.4.3 Under factory mode, press “power” key. The monitor will exit factory mode and enter normal Display mode.

1.5 methods to enter/exit manual color alignment menu

Under factory mode, select color temp manual. Item on factory OSD menu. It will display the following color temperature adjust menu.



Use “up” and “down” to move cursor between items “9300”, “6500”,”5400” and”5000”. Press ¡§2¡¨ to select which color temperature to be adjusted. It will show following menu. Use “2” key to switch r, g, b, driver. “Up” or “down” key to adjust the R. G. B value corresponding to the selected item.



5.2 Color Temperature Alignment

Before manually adjusting color temperature, set OSD contrast 80%, brightness 100% (factory default), enter into factory mode and select “color temp. manual” item

2.1 9300°k alignment

2.1.1 use “up” or “down” key to move cursor to 9300 color

Temperature. Then press “2” key to select 9300 color Temperature adjustment.

2.1.2 Use “2” to move cursor to r-driver or g-driver or b-driver and then press "UP" or “DOWN” key to adjust it to meet Following chromaticity spec.
9300 ° k → x = 0.283±0.003 , y = 0.298±0.003 y>= 150cd/m2.

2.1.3 Press “1” to exit 9300 color temperature adjustment and do another color temperature adjustment. The above result R,G,B gain will automatically be saved, when exiting the Factory mode OSD menu.

2.2 6500°k alignment

2.2.1 Use “up” or “down” key to move cursor to 6500 color temperature. Then press “2” key to select 6500 color temperature adjustment.

2.2.2 Use “2” to move cursor to r-driver or g-driver or b-driver and then press “up” or “down” key to adjust it to meet following chromaticity spec.
6500 ° k →x = 0.313 ± 0.003 , y = 0.329 ±0.003 y>= 180cd/m2.

2.2.3 Press “1” to exit 6500 color temperature adjustment and do another color temperature adjustment. The above result R, G, B gain will automatically be saved, when exiting the factory Mode OSD menu.

2.3 5400°k alignment

2.3.1 Use “up” or “down” key to move cursor to 5400 color temperature. Then press “2” key to select 5400 color temperature adjustment.

2.3.2 Use “2” to move cursor to r-driver or g-driver or b-driver and then press “up” or “down” key to adjust it to meet

following chromaticity spec.

5400 ° k →x = 0.332 ± 0.003 , y = 0.348 ±0.003 y>= 180cd/m2.

2.3.3 Press “1” to exit 5400 color temperature adjustment and do another color temperaute adjustment. The above result R, G, B will automatically be saved, when exiting the factory Mode OSD menu.

2.4 5000°k alignment

2.4.1 Use “up” or “down” key to move cursor to 5000 color temperature. Then press “2” key to select 5000 color temperature adjustment.

2.4.2 Use “2” to move cursor to r-driver or g-driver or b-driver and then press “up” or “down” key to adjust it to meet following chromaticity spec.

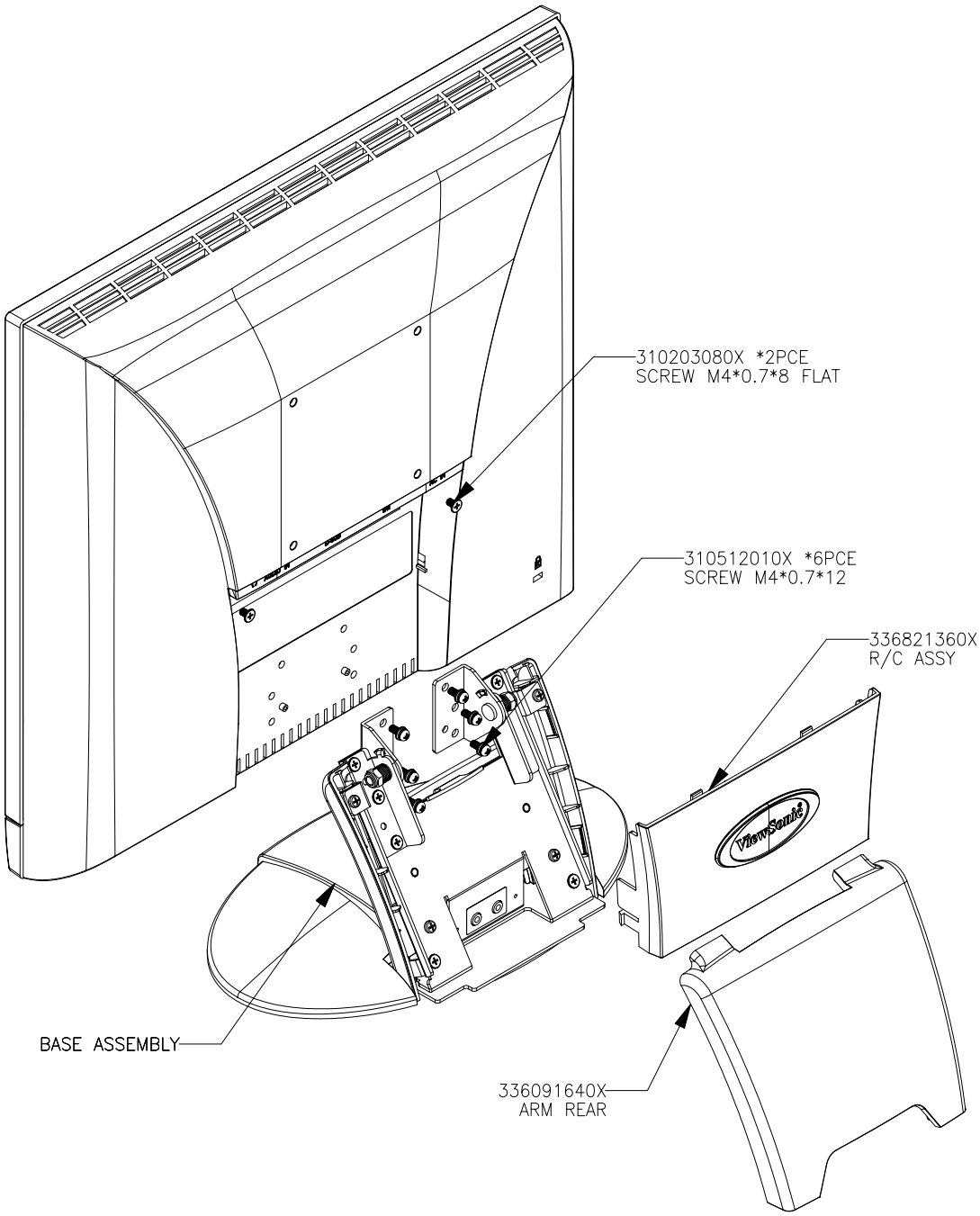
5000 ° k →x = 0.346 ± 0.003 , y = 0.359 ±0.003 y>= 180cd/m2.

2.4.3 Press “1” to exit 5000 color temperature adjustment and do another color temperaute adjustment. The above result R, G, B gain will automatically be saved, when exiting the factory Mode OSD menu.

5.3 Factory Preset Setting

3.1 in factory mode OSD main menu select factory default setting. Press “2” to confirm the selection.

6. Mechanical Assembly



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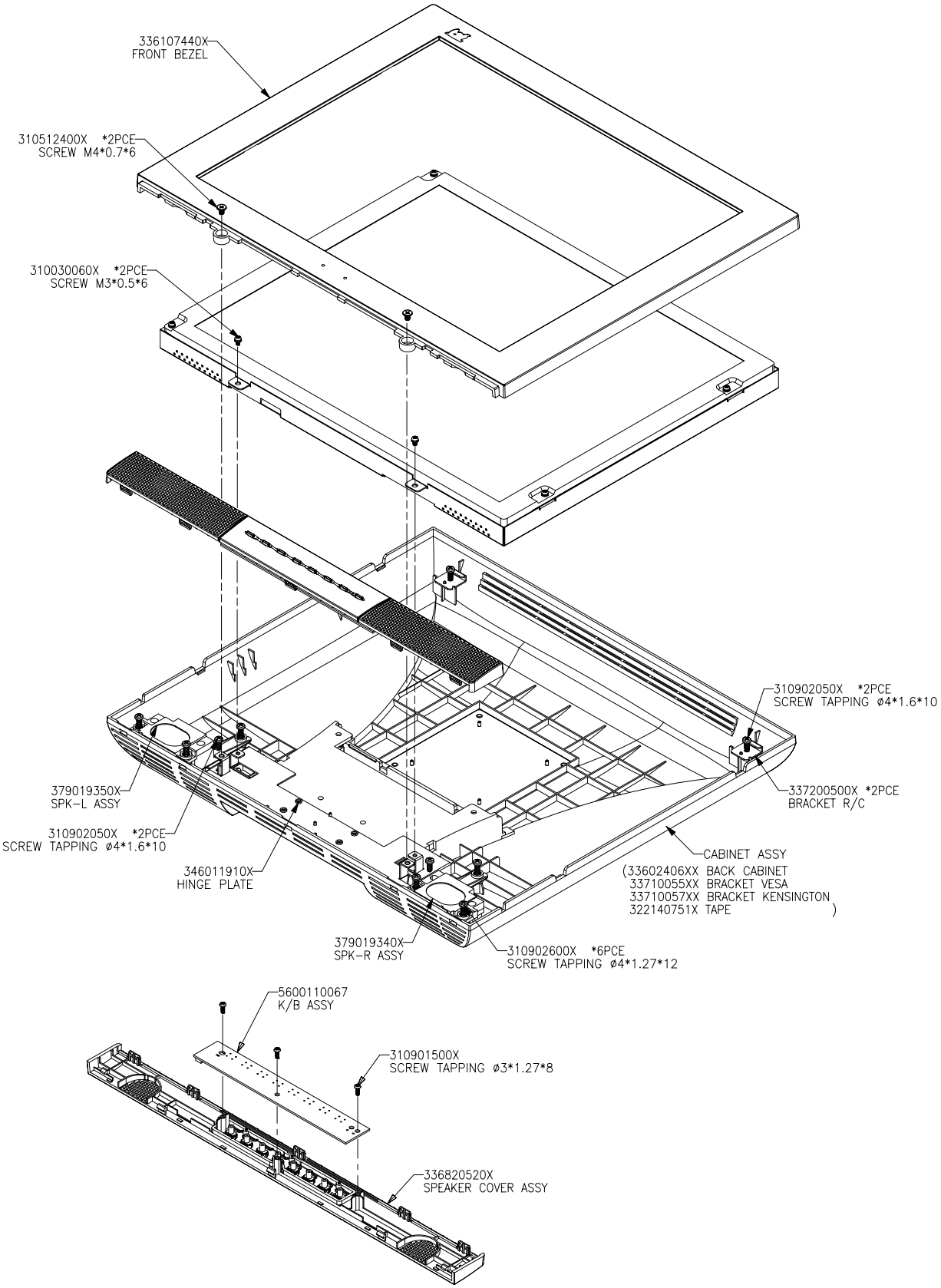
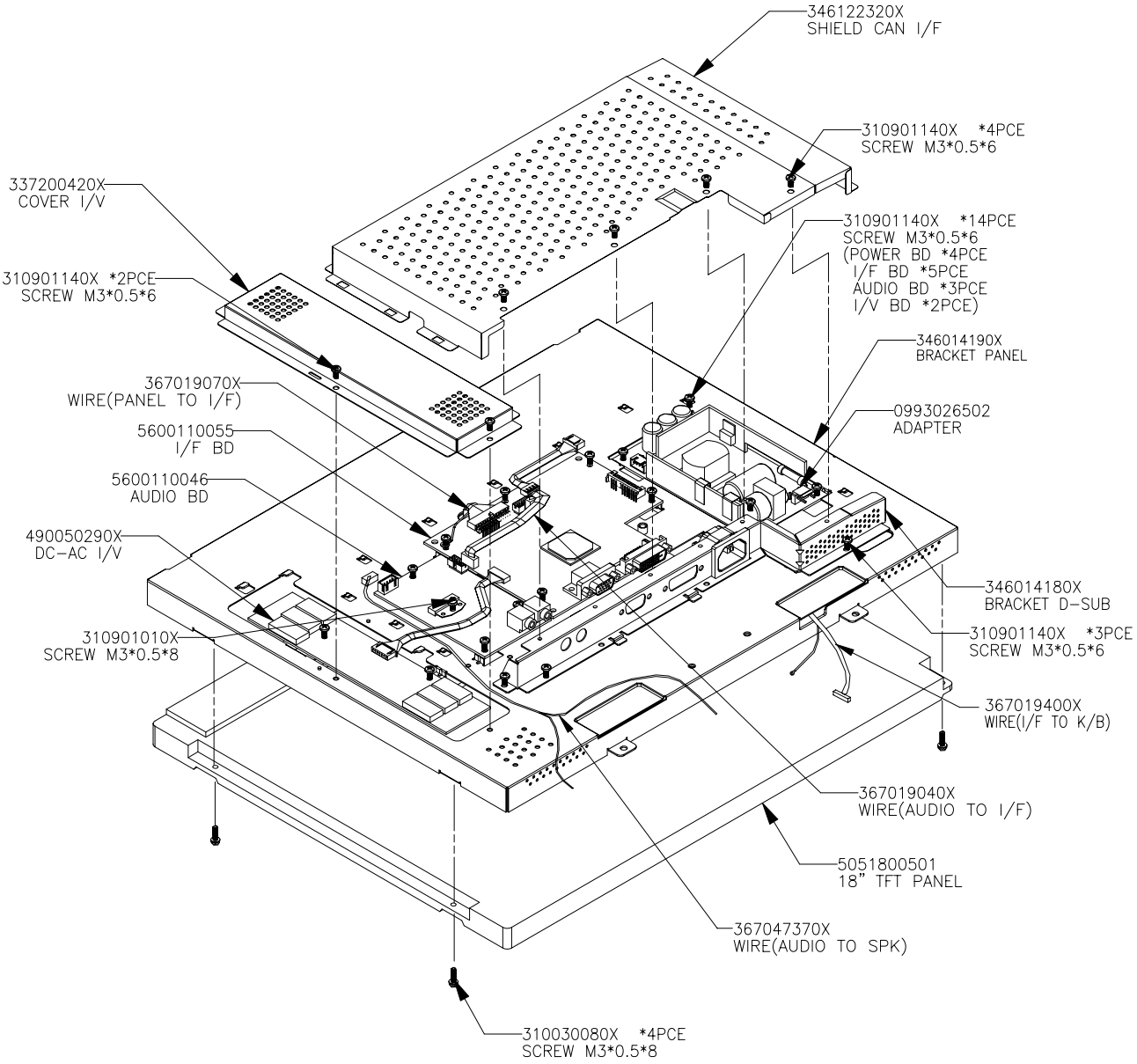
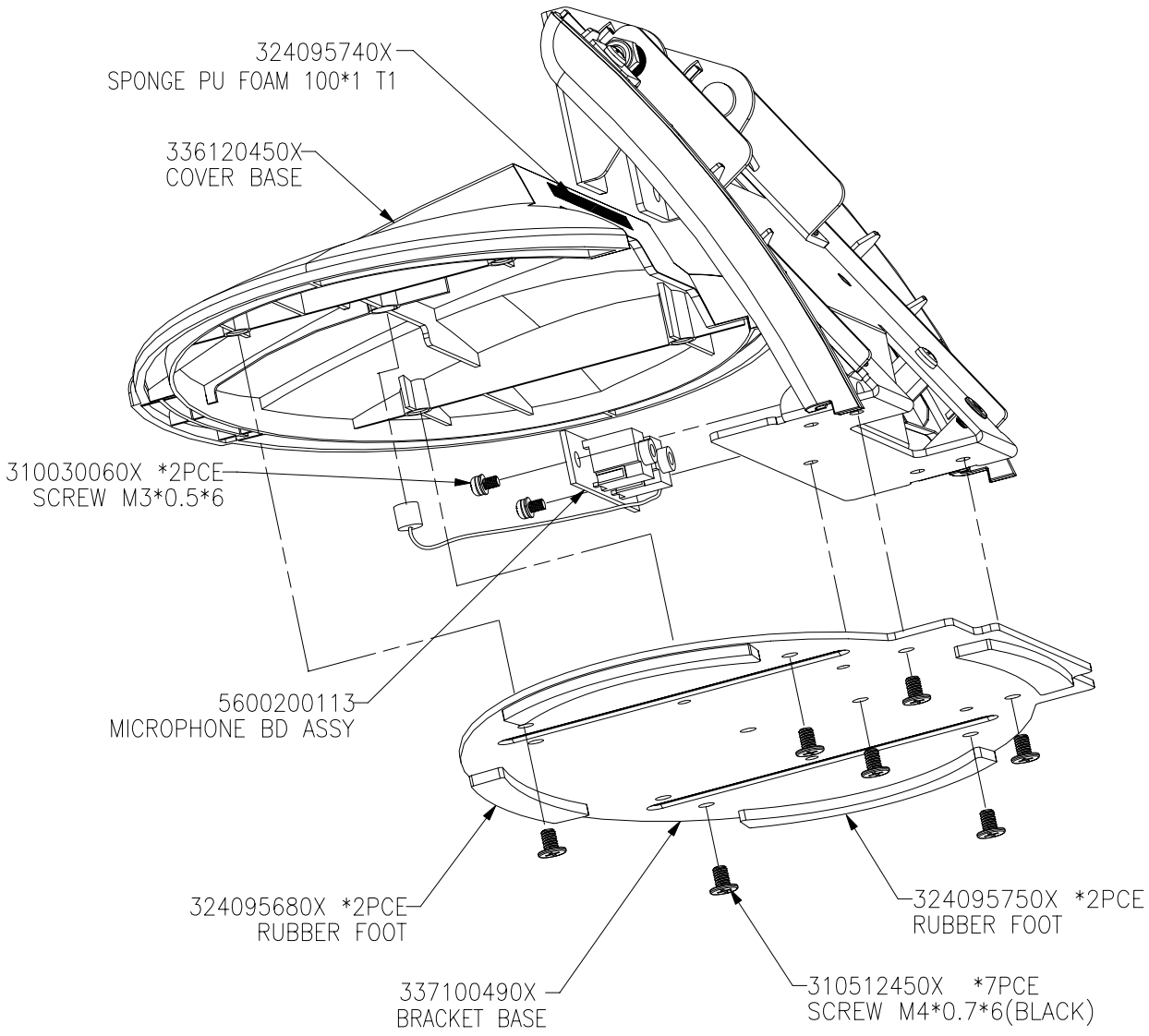
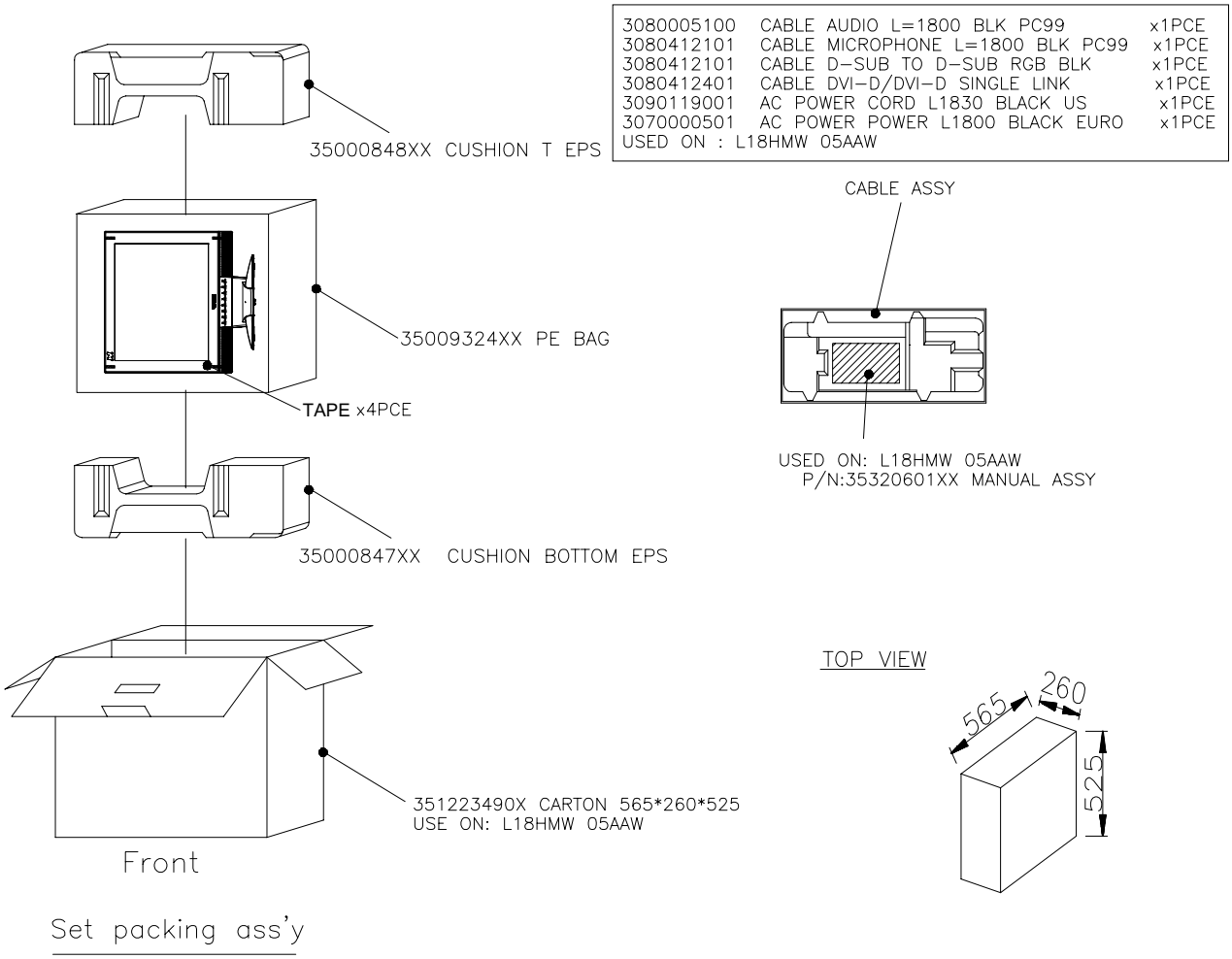

336107440X
FRONT BEZEL
310512400X *2PCE
SCREW M4*0.7*6
310030060X *2PCE
SCREW M3*0.5*6
310902050X *2PCE
SCREW TAPPING ø4*1.6*10
337200500X *2PCE
BRACKET R/C
379019350X
SPK-L ASSY
310902050X *2PCE
SCREW TAPPING ø4*1.6*10
346011910X
HINGE PLATE
CABINET ASSY
(33602406XX BACK CABINET
33710055XX BRACKET VESA
33710057XX BRACKET KENSINGTON
322140751X TAPE)
379019340X
SPK-R ASSY
310902600X *6PCE
SCREW TAPPING ø4*1.27*12
5600110067
K/B ASSY
310901500X
SCREW TAPPING ø3*1.27*8
336820520X
SPEAKER COVER ASSY


346122320X
SHIELD CAN I/F
310901140X *4PCE
SCREW M3*0.5*6
337200420X
COVER I/V
310901140X *14PCE
SCREW M3*0.5*6
(POWER BD *4PCE
I/F BD *5PCE
AUDIO BD *3PCE
I/V BD *2PCE)
310901140X *2PCE
SCREW M3*0.5*6
346014190X
BRACKET PANEL
367019070X
WIRE(PANEL TO I/F)
0993026502
ADAPTER
5600110055
I/F BD
5600110046
AUDIO BD
490050290X
DC-AC I/V
346014180X
BRACKET D-SUB
310901140X *3PCE
SCREW M3*0.5*6
310901010X
SCREW M3*0.5*8
367019400X
WIRE(I/F TO K/B)
367019040X
WIRE(AUDIO TO I/F)
5051800501
18" TFT PANEL
367047370X
WIRE(AUDIO TO SPK)
310030080X *4PCE
SCREW M3*0.5*8

BASE ASSEMBLY



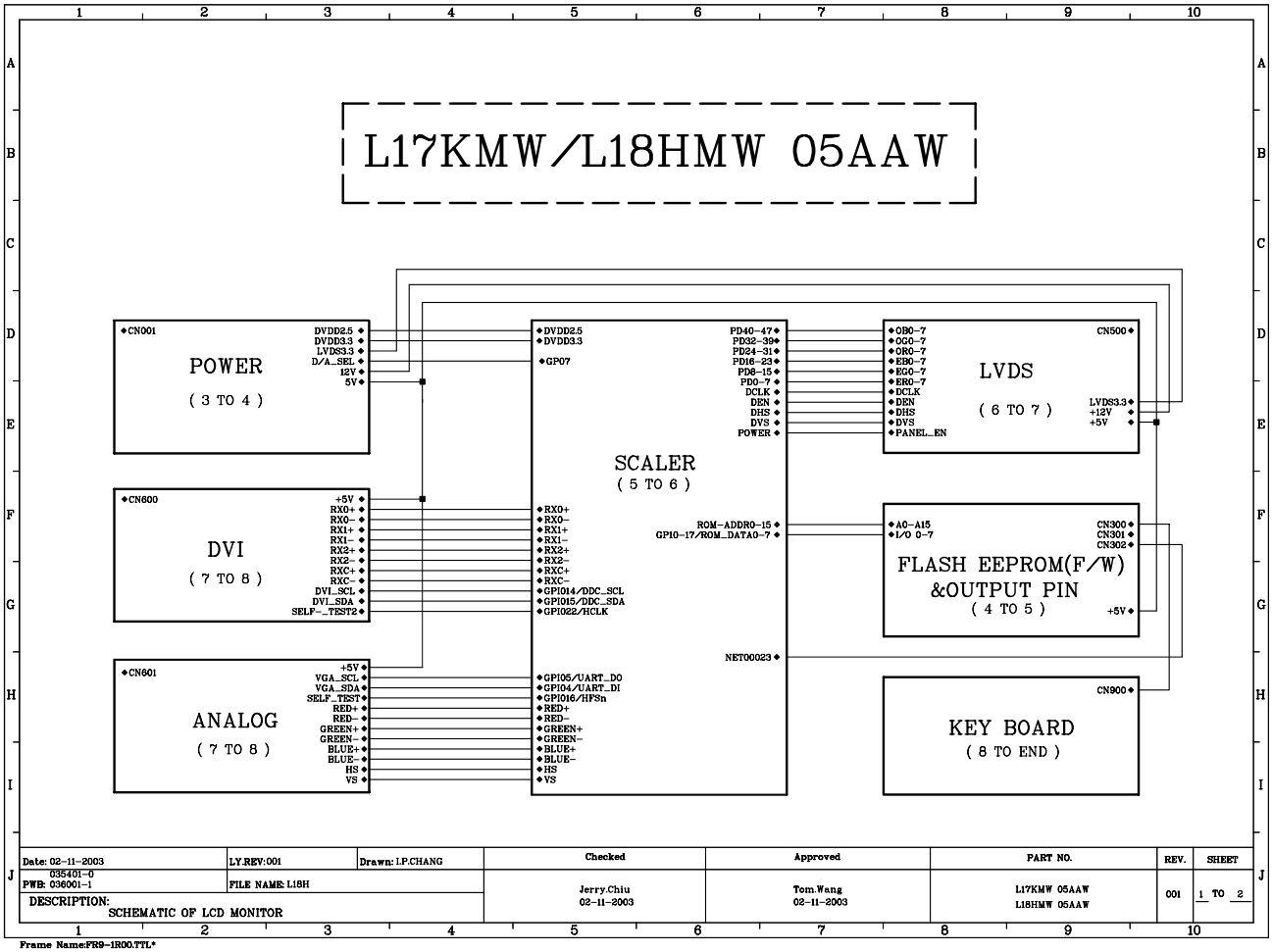

3080005100 CABLE AUDIO L=1800 BLK PC99 x1PCE
3080412101 CABLE MICROPHONE L=1800 BLK PC99 x1PCE
3080412101 CABLE D-SUB TO D-SUB RGB BLK x1PCE
3080412401 CABLE DVI-D/DVI-D SINGLE LINK x1PCE
3090119001 AC POWER CORD L1830 BLACK US x1PCE
3070000501 AC POWER POWER L1800 BLACK EURO x1PCE
USED ON : L18HMW 05AAW
35000848XX CUSHION T EPS
CABLE ASSY
35009324XX PE BAG
TAPE x4PCE
USED ON: L18HMW 05AAW
P/N:35320601XX MANUAL ASSY
35000847XX CUSHION BOTTOM EPS
TOP VIEW
565
260
525
351223490X CARTON 565*260*525
USE ON: L18HMW 05AAW
Front

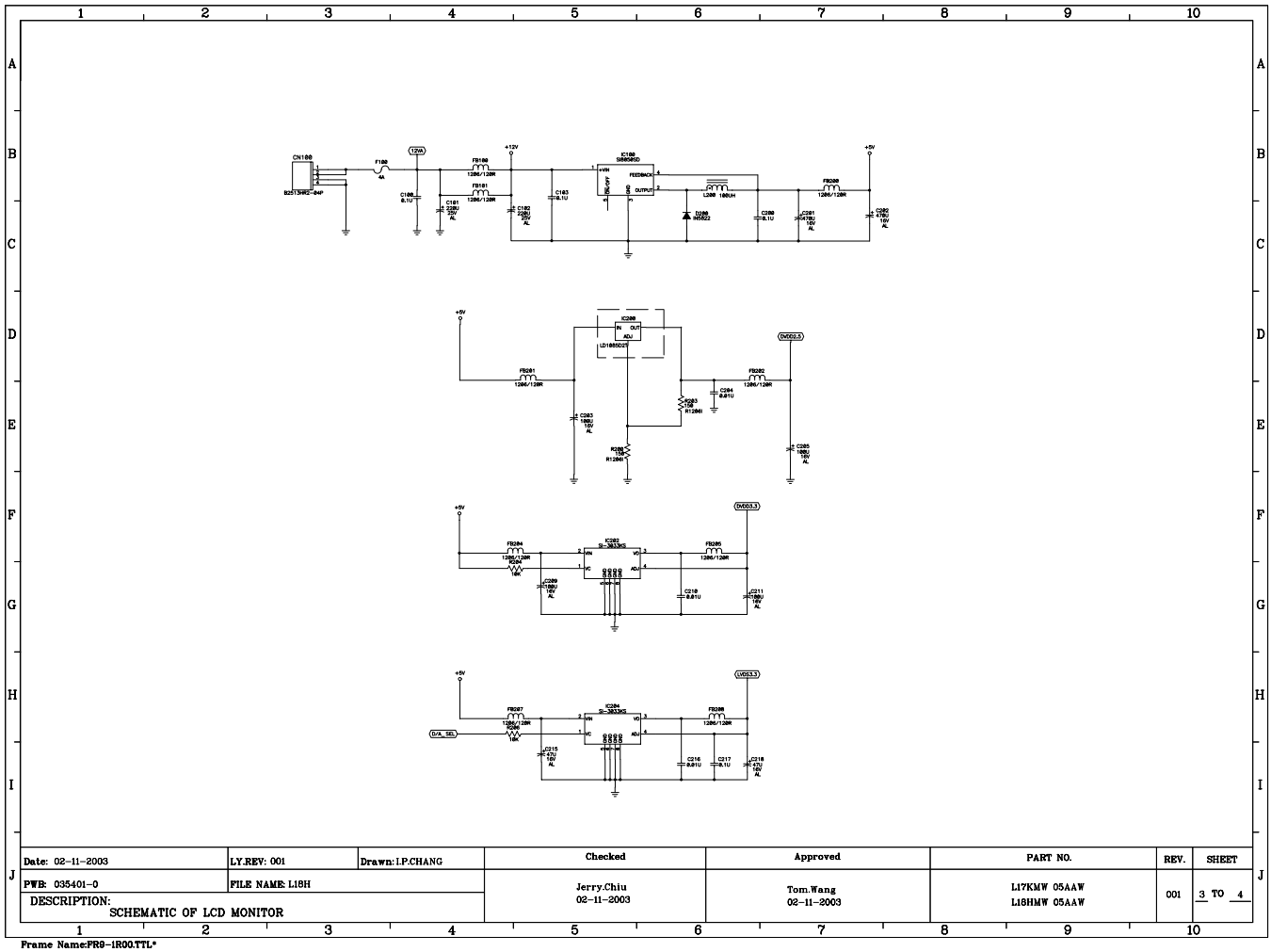
Set packing ass'y

Mechanical Parts List

ITEM	VIEWSONIC P/N	REFERENCE NO.	DESCRIPTION
1		310203080X	SCREW M4*0.7*8 FLAT
2		310512010X	SCREW M4*0.7*12
3	C-BC-0302-0479	336821360X	R/C ASSY
4			BASE ASSEMBLY
5	M-CV-0830-2382	336091640X	ARM REAR
6	C-FP-0301-0326	336107440X	FRONT BEZEL
7		310512400X	SCREW M4*0.7*6
8		310030060X	SCREW M3*0.5*6
9	E-SK-0412-0071	379019350X	SPK-L ASSY
10		310902050X	SCREW TAPPING f4*1.6*10
11		346011910X	HINGE PLATE
12	E-SK-0412-0070	379019340X	SPK-R ASSY
13		310902600X	SCREW TAPPING f4*1.27*12
14	C-BC-0302-0487	33602406XX	BACK CABINET
15		33710055XX	BRACKET VESA
16		33710057XX	BRACKET KENSINGTON
17		322140751X	TAPE
18		337200500X	BRACKET R/C
19		310902050X	SCREW TAPPING f4*1.6*10
20	B-KB-0207-0031	5600110067	K/B ASSY
21		310901500X	SCREW TAPPING f3*1.27*8
22	M-CV-0830-2403	336820520X	SPEAKER COVER ASSY
23		337200420X	COVER I/V
24		310901140X	SCREW M*0.5*6
25		367019070X	WIRE(PANEL TO I/F)
26	B-IF-0222-0037	5600110055	I/F BOARD
27	B-AC-0215-0038	5600110046	AUDIO BOARD
28	B-SB-0221-0451	490050290X	DC-AC I/V
29		310901010X	SCREW M3*0.5*8
30		310030080X	SCREW M3*0.5*8
31		367047370X	WIRE (AUDIO TO SPK)
32	M-LCD-0826-0124	5051800501	18" TFT PANEL
33		367019040X	WIRE (AUDIO TO I/F)
34		367019400X	WIRE (I/F TO K/B)
35		310901140X	SCREW M3*0.5*6
36		346014180X	BRACKET D-SUB
37	A-AD-0114-0182	0993026502	ADAPTER
38		346014190X	BRACKET PANEL
39		310901140X	SCREW M3*0.5*6
40		310901140X	SCREW M3*0.5*6
41		346122320X	SHIELD CAN I/F
42		324095740X	SPONGE PU FOAM 100*1 T1
43	M-CV-0830-2384	336120450X	COVER BASE
44		310030060X	SCREW M3*0.5*6
45		5600200113	MICROPHONE BD ASSY
46		324095680X	RUBBER FOOT
47		337100490X	BRACKET BASE
48		310512450X	SCREW M4*0.7*6(BLACK)
49		324095750X	RUBBER FOOT
50	P-FM-0602-0757	35000848XX	CUSHION T EPS
51		35009324XX	PE BAG
52	P-FM-0602-0756	35000847XX	CUSHION BOTTOM EPS
53	P-BX-0601-0784	351223490X	CARTON 565*260*525 (USED ON: L18HMW 05AAW)
54	A-AU-0120-0033	3080005100	CABLE AUDIO L=1800 BLK PC99
55	A-MC-0105-0017	3080412101	CABLE MICROPHONE L=1800 BLK PC99
56	M-MS-0808-8033	3080412101	D-SUB TO D-SUB RGB BLK
57	M-MS-0808-8041	3080412401	CABLE DVI-D/DVI-D SINGLE LINK
58	A-PC-0106-0229	3090119001	AC POWER CORD L1830 BLACK US
59	A-PC-0106-0193	3070000501	AC POWER CORD L1800 BLACK EURO
60		35320601XX	MANUAL ASSEMBLY (USED ON: L18HMW 05AAW)

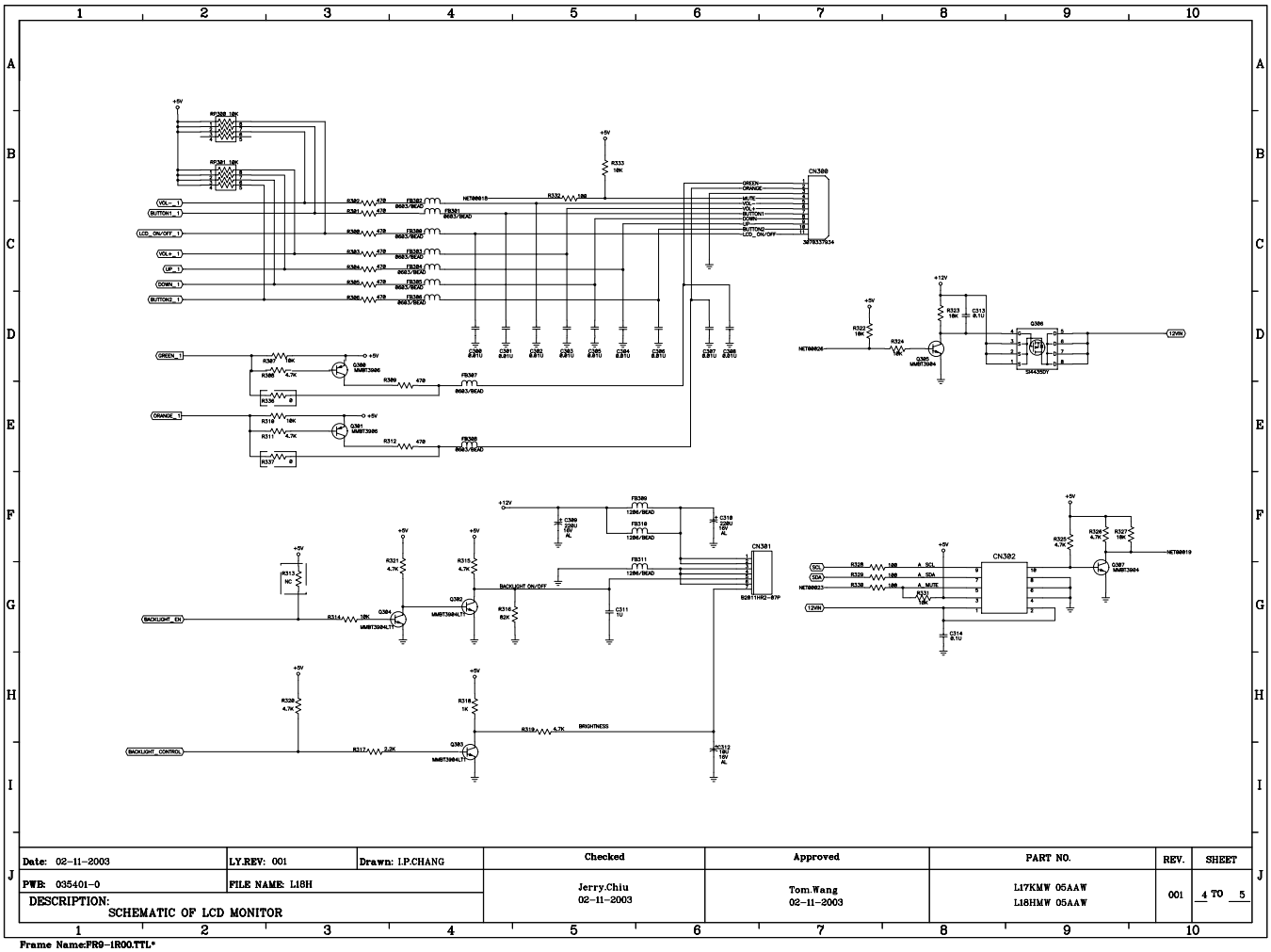
7. Schematic Diagrams





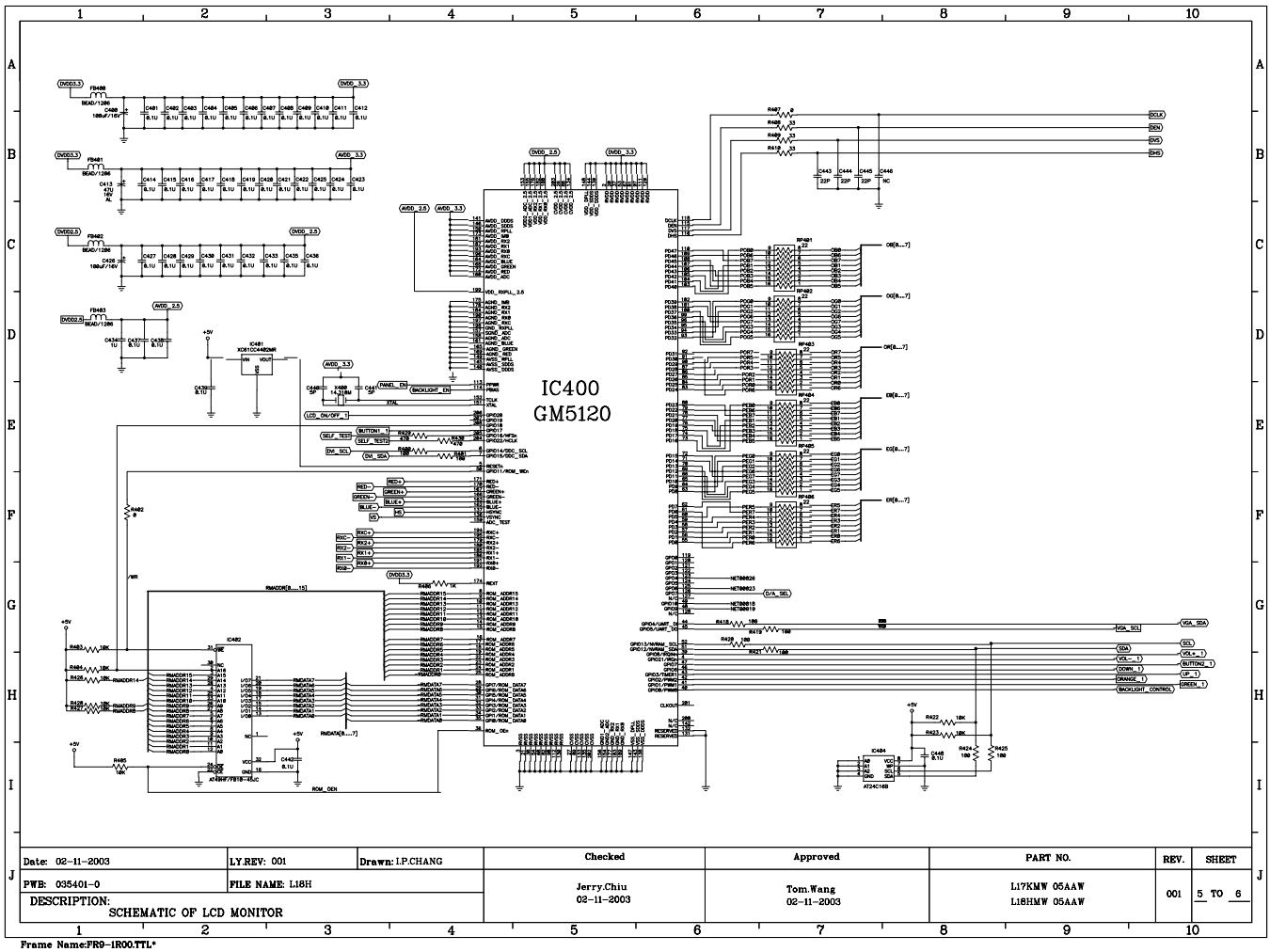
Date: 02-11-2003	LY.REV: 001	Drawn: I.P.CHANG	Checked	Approved	PART NO.	REV.	SHEET
PWB: 035401-0	FILE NAME: L18H		Jerry.Chiu 02-11-2003	Tom.Wang 02-11-2003	L17KMW 05AAW L18HMW 05AAW	001	3 TO 4
DESCRIPTION: SCHEMATIC OF LCD MONITOR							

Frame Name:FR9-1R00.TTL*



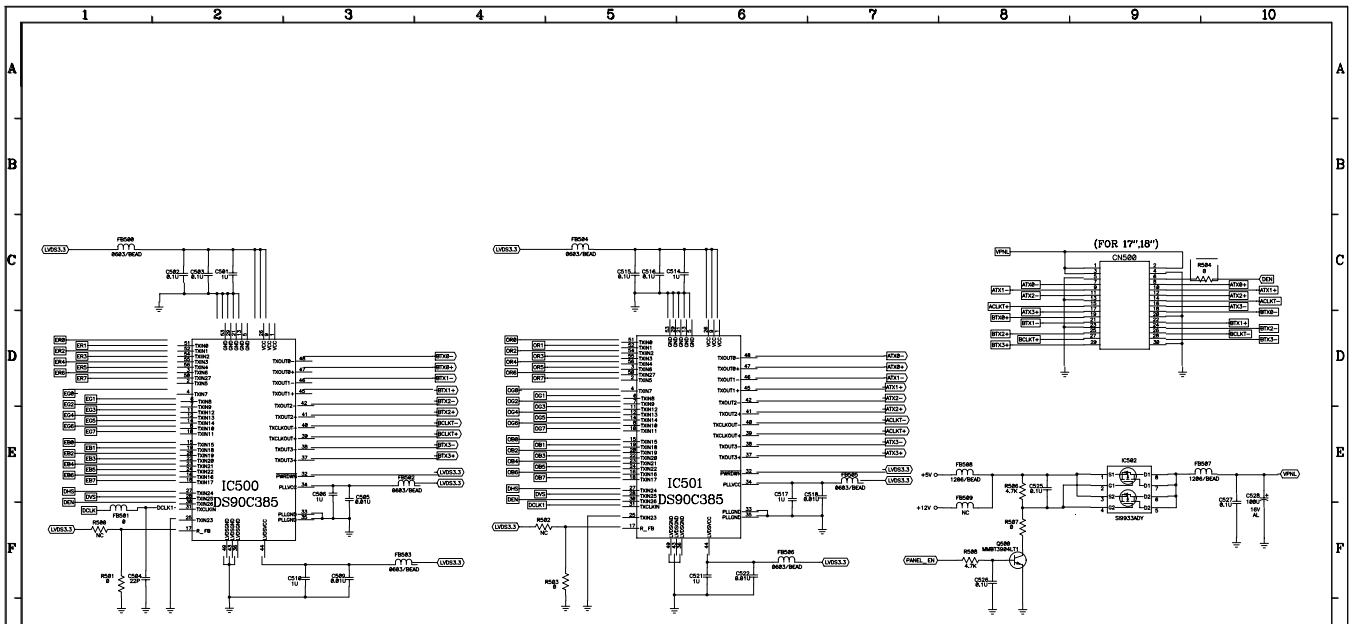
Date: 02-11-2003	LY.REV: 001	Drawn: I.P.CHANG	Checked	Approved	PART NO.	REV.	SHEET
PWB: 035401-0	FILE NAME: L18H		Jerry.Chiu 02-11-2003	Tom.Wang 02-11-2003	L17KMW 05AAW L18HMW 05AAW	001	4 TO 5
DESCRIPTION: SCHEMATIC OF LCD MONITOR							

Frame Name:FR9-1R00.TTL*



Date: 02-11-2003	LY.REV: 001	Drawn: I.P.CHANG	Checked	Approved	PART NO.	REV.	SHEET
PWB: 035401-0	FILE NAME: L18H		Jerry.Chiu 02-11-2003	Tom.Wang 02-11-2003	L17KMW 05AAW L18HMW 05AAW	001	5 TO 6
DESCRIPTION: SCHEMATIC OF LCD MONITOR							

Frame Name:FR9-1R00.TTL*

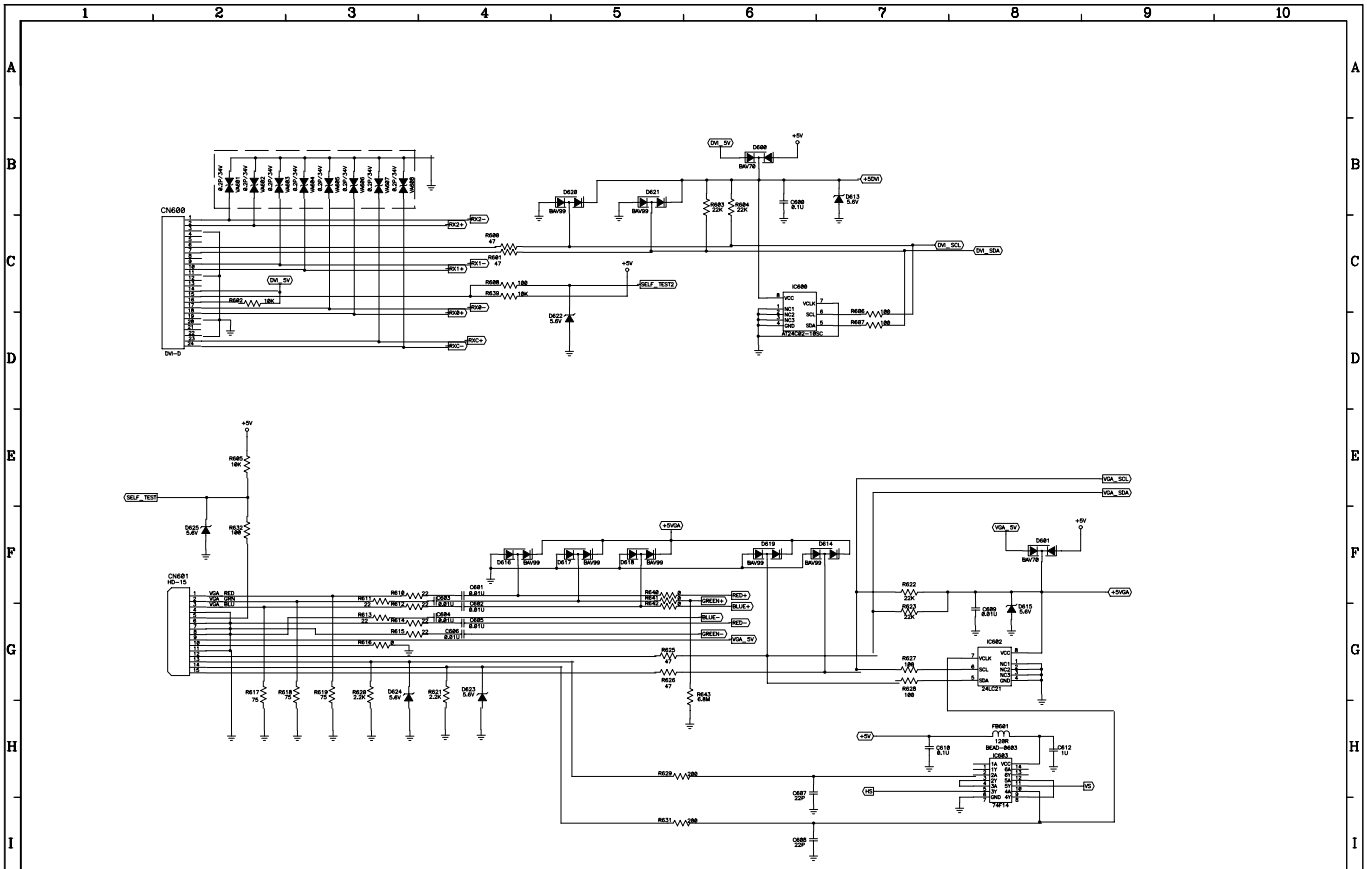


R_FB	Rising edge strobe	Falling edge strobe
R500/R502	V	X
R501/R503	X	V

	R508
L17KMW	3.9K
L18HMW	4.7K

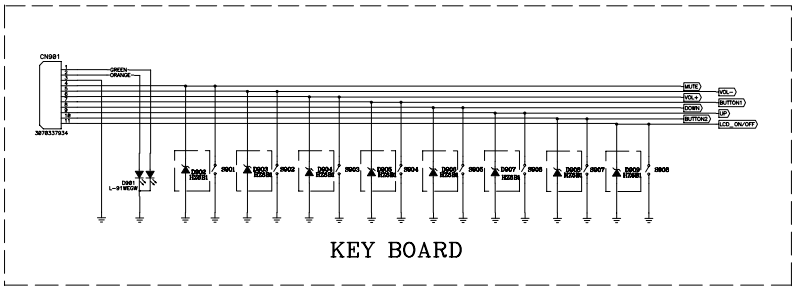
Date: 02-11-2003	LY.REV: 001	Drawn: P.CHANG	Checked	Approved	PART NO.	REV.	SHEET
PWB: 035401-0	FILE NAME: L18H		Jerry.Chiu 02-11-2003	Tom.Wang 02-11-2003	L17KMW 05AAW L18HMW 05AAW	001	6 TO 7
DESCRIPTION: SCHEMATIC OF LCD MONITOR							

Frame Name:FR9-1R00.TTL*



Date: 02-11-2003	LY.REV: 001	Drawn:I.P.CHANG	Checked	Approved	PART NO.	REV.	SHEET
PWB: 035401-0	FILE NAME: L18H		Jerry.Chiu 02-11-2003	Tom.Wang 02-11-2003	L17KMW 05AAW L18HMW 05AAW	001	7 TO 8
DESCRIPTION: SCHEMATIC OF LCD MONITOR							

Frame Name:FR9-1R00.TTL*

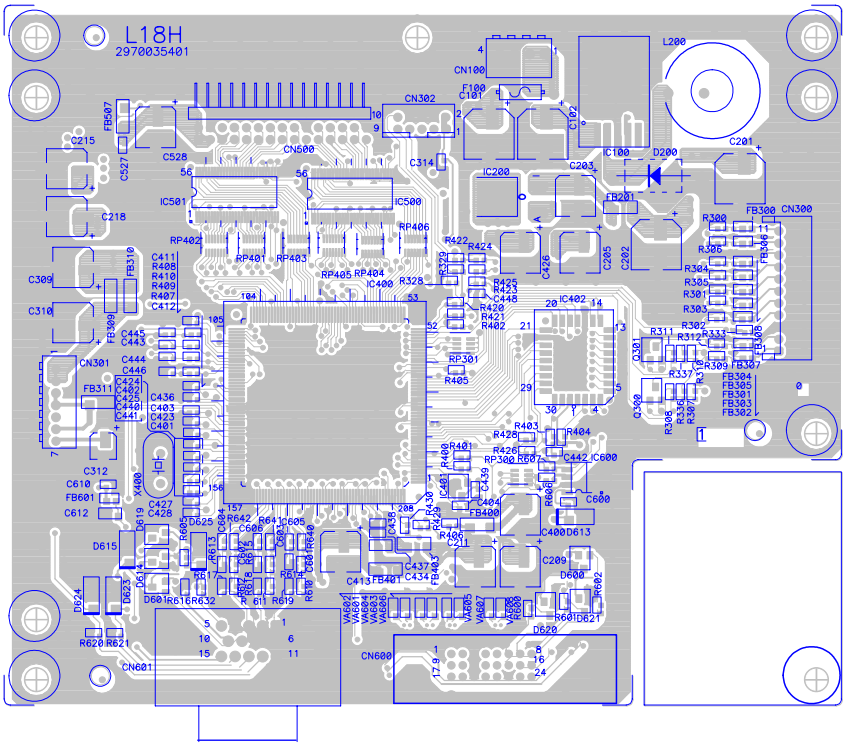


KEY BOARD

Date: 02-11-2003	LY.REV: 001	Drawn: I.P.CHANG	Checked	Approved	PART NO.	REV.	SHEET
PWB: 036001-1	FILE NAME: L18H		Jerry.Chiu 02-11-2003	Tom.Wang 02-11-2003	L17KMW 05AAW L18HMW 05AAW	001	8 TO END
DESCRIPTION: SCHEMATIC OF LCD MONITOR							

Frame Name:FR9-1R00.TTL*

8. PCB Layout



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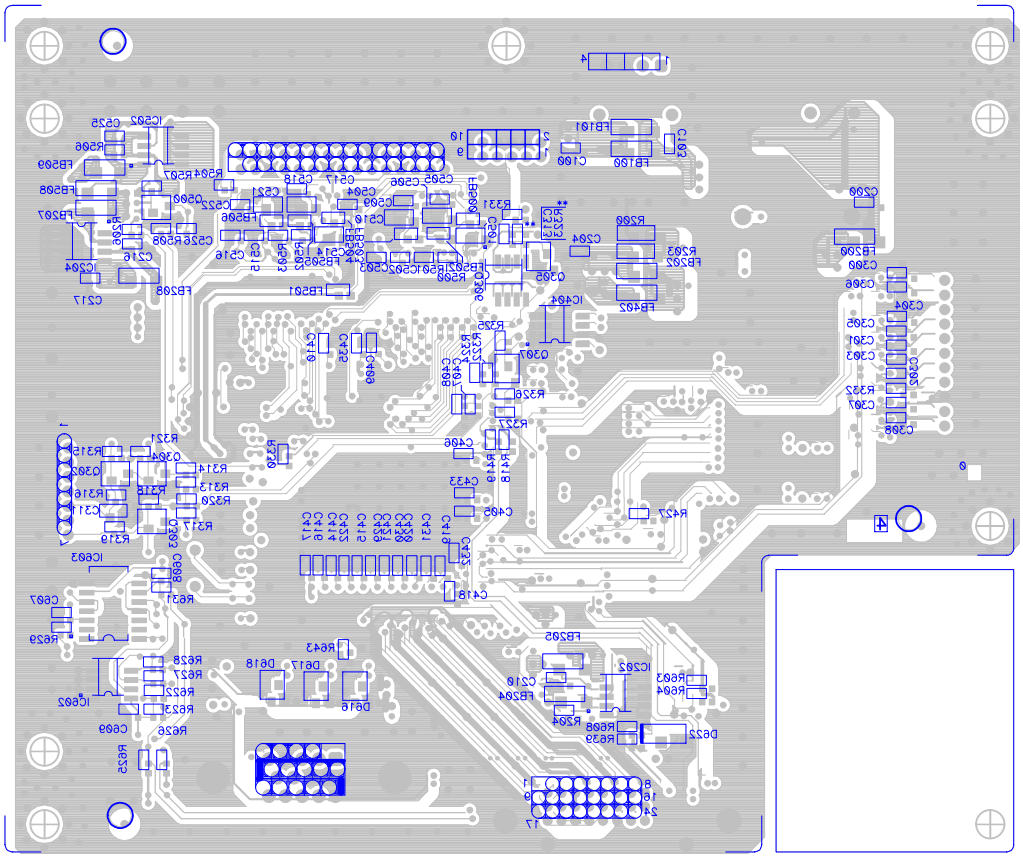

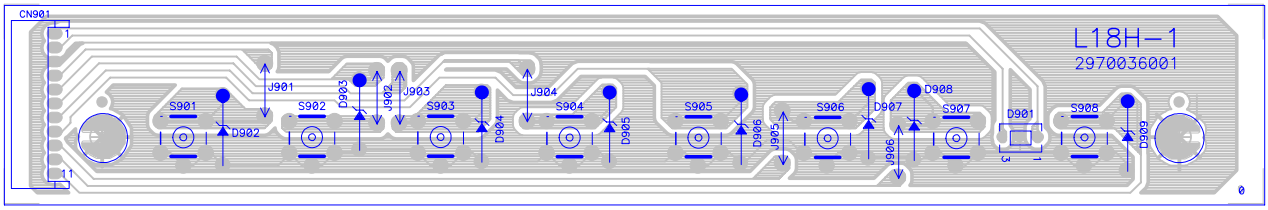

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DELTA ELECTRONICS, INC. AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SELL OF APPARATUSES OR DEVICES WITHOUT PERMISSION.	DRAWING NO: PM-1- 18H-1 REV: 1 USED ON: L18H-1 CODE: 0 MADE BY: BETTY LEE DATE: 11-05-2002 P/N: 2970036001 COMPONENT SIDE SIZE: 11=1

9. Parts Lists

9.1 Recommended Spare Parts List

Item	ViewSonic P/N	Reference No.	Description	Remaks
1	A-AD-0114-0182	0993026502	POWER 90-264VAC 12VDC 5A COMPUTER USE	
2	A-PC-0106-0193	3070000501	AC POWER CORD L1800 BLACK EURO	
3	A-AU-0120-0033	3080005100	CABLE AUDIO L=1800 BLK PC99	
4	A-MC-0105-0017	3080005200	CABLE MICPHONE L=1800 BLK PC99	
5	M-MS-0808-8033	3080412101	CABLE D-SUB TO D-SUB RGB BLK L	
6	M-MS-0808-8041	3080412401	CABLE DVI-D/DVI-D SINGLE LINK	
7	A-PC-0106-0229	3090119001	AC POWER CORD L1830 BLACK US	
8	M-SCW-0824-0410	3100300600	SCREW M M3*0.5*6 PAN C S+P S20	PANEL BRKT+BACK CABINET
9	M-SCW-0824-0391	3100300800	SCREW M M3*0.5*8 PAN C S+P S20	LCD PANEL+PANEL BKT
10	M-SCW-0824-0391	3100300800	SCREW M M3*0.5*8 PAN C S+P S20	AUDIO BD+ICA3
11	M-SCW-0824-0696	3102030800	SCREW M M4*0.7*8 FLAT C S10C Z	PANEL BKT+BACK CABINET
12	M-SCW-0824-0690	3105051501	SCREW M #4-40*7 HEXH #4-40*3 S	CONN. D-SUB
13	M-SCW-0824-0690	3105051501	SCREW M #4-40*7 HEXH #4-40*3 S	CONN. DVI-D
14	M-SCW-0814-0691	3105120100	SCREW M M4*0.7*12 PAN C S+P S1	HINGE SUB ASSY+R/C
15	M-SCW-0814-0692	3105124000	SCREW M M4*0.7*6 PAN C S18C NI	F/B PC/ABS
16	M-SCW-0814-0692	3105124000	SCREW M M4*0.7*6 PAN C S18C NI	HINGE SUB
17	M-SCW-0814-0693	3105124500	SCREW M M4*0.7*6 FF C S18C ZN	NECK SUB ASSY+BASE COVER
18	M-SCW-0814-0693	3105124500	SCREW M M4*0.7*6 FF C S18C ZN	NECK BRKT+BKT BUTTON
19	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	I/V+PANEL BKT
20	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	AUDIO BD+PANELBKT
21	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	D-SUB BKT+SHEILD CAN
22	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	D-SUB BKT+PANEL BKT
23	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	POWER BD+PANEL BKT
24	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	I/F+PANEL BKT
25	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	I/V SHIELD CAN+PANEL BKT
26	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	I/V SHIELD CAN +PANEL BKT
27	M-SCW-0814-0694	3109015000	SCREW T φ3*1.27*8 PAN C S20C	K/B+SPK COVER
28	M-SCW-0824-0620	3109020500	SCREW T φ4*1.6*10 PAN C S18C	BACK CABINET+PANEL BRKT
29	M-SCW-0824-0620	3109020500	SCREW T φ4*1.6*10 PAN C S18C	BACK CABINET
30	M-SCW-0824-0431	3109020800	SCREW T φ4*1.6*12 PAN C S18C	AC SOCKET GND
31	M-SCW-0824-0733	3109026000	SCREW T φ4*1.27*12 FPH C S18C	SPEAKER &BACK CABINET
32	M-SCW-0824-0733	3109026000	SCREW T φ4*1.27*12 FPH C S18C	NECK F/C P
33	M-MS-0808-8040	3110250000	WASHER SPRING SWRT	CONN D-SUB
34	M-MS-0808-8040	3110250000	WASHER SPRING SWRT	CONN DVI-D
35	M-MS-0808-4686	3200462800	NAME PLATE AL+PC VSC 3-BIRD LO	
36	M-MS-0808-8151	3200641801	NAME PLATE AL 43*6.9*1.15T VIE	
37	M-MS-0808-7739	3200648800	NAME PLATE ABS 94HB VIEWSONIC	
38	M-LB-0813-0763	3201942500	LABEL ID 160*43 VSC VX800-3	
39	M-LB-0813-0700	3202207300	LABEL MIC IN 10.2*15	
40	M-LB-0813-0714	3202310700	LABEL HV WARNING 100*25	
41	M-MS-0808-8303	3211024500	MYLAR 435*350 T.2	FRONT BEZEL
42	C-BC-0302-0477	3360240100	R/C ABS VSC02B VX700-2	
43	C-BC-0302-0487	3360240600	CABINET BACK ABS 41 VX800-2	
44	PL-FK-0709-0114	3360727100	FUNCTION KEY ABS VSC02B S7LFA1	
45	M-CV-0830-2381	3360916300	ARM FRONT ABS 41 VX700-2	
46	M-CV-0830-2382	3360916400	ARM REAR ABS 41 VX700-2	
47	C-FP-0301-0326	3361074400	F/B ABS SV-651 VX800-2	
48	M-CV-0830-2384	3361204500	COVER BASE ABS 41 VX700-2	
49	M-CV-0830-2402	3361204800	COVER SPEAKER ABS 41 VX800-2	
50	M-CV-0830-2403	3368205200	SPEAKER COVER ASSY L18HMW05AAW	
51	C-BC-0302-0479	3368213600	R/C ASSY L17KMW05AAW	
52	M-MS-0808-8159	3371004902	BRKT BASE SPCC T=2 ZN BLK	
53	M-MS-0808-8160	3371005202	BRACKET MECK SPCC T=2 ZN BLUE	
54	M-MH-0822-0002	3371005500	BRACKET VESA MOUNTING SECC T=1	FOR CABINET BACK
55	M-MH-0822-0004	3371005701	BRACKET KENSINGTON SECC T=1.2	FOR CABINET BACK
56	M-CV-0830-2348	3372004201	COVER INVERT SECC T=0.6 18"	
57	M-MS-0808-8223	3372005001	BRACKET R/C SUB SECC T=1.2	R/C PC/ABS
58	M-MS-0808-8162	3421024500	CABLE CLAMP GROUNDING SPCC T.3	K/B WIRE+PANEL BRKT
59	M-CV-0830-2369	3460119101	BRACKET REAR COVER SECC T=1.2	
60	M-MH-0822-0038	3460141801	BRACKET D-SUB SECC 211.5*23.8	
61	M-MH-0822-0010	3460141900	BRACKET PANEL SECC 408*326.2 T	

62	M-CV-0830-2396	3461223200	SHIELD CAN I/F SPTH 219.5*141.	
63	M-MS-0808-8163	3461750601	HINGE SUB ASSY R	
64	M-MS-0808-8164	3461750701	HINGE SUB ASSY L	
65	M-MS-0808-8165	3463000400	CONDUCTIVE AL 50*30 T=0.1	LCD COVER
66	P-FM-0602-0756	3500084701	END BLOCK EPS (B) 558*261*170	
67	P-FM-0602-0757	3500084801	END BLOCK EPS (T) 558*261*170	
68	M-MS-0808-7674	3500932401	PE BAG 500*640 T=0.06 CLEAN	
69	P-BX-0601-0784	3512234900	CARTON 565*265*595 VSC VG800-2	
70	M-MS-0808-8396	3520094201	PE BAG 260*155*0.1T	FOR MANUAL
71	M-MS-0808-7750	3532060100	MANUAL PACKING ASSY VSC VX800-	
72	A-CD-VX800-3	3532060200	CD-ROM VSC A-CD-VX800-3	
73	M-WR-0828-0688	3610170900	AC SOCKET ASSY L19EMW05AAW L20	
74	M-WR-0828-0682	3670190400	WIRE WITH HOUSING 1007 #28 L12	AUDIO TO I/F
75	M-WR-0828-0689	3670190700	WIRE WITH HOUSING 20276 #30 L2	PANEL TO I/F
76	M-WR-0828-0690	3670194000	WIRE WITH HOUSING 20276 #28 L3	K/B TO I/F
77	M-WR-0828-0641	3670459102	WIRE WITH HOUSING 1007 #28 L=4	AUDIO/BD JA2
78	E-SK-0412-0070	3790193400	SPEAKER-R ASSY L17KMW05AAW	
79	E-SK-0412-0071	3790193500	SPEAKER-L ASSY L17KMW05AAW	
80	B-SB-0221-0451	4900502900	DC-AC INVERTER 12V/1500VMIN 6L	
81	M-MS-0808-7751	5011086700	MANUAL QUICK START GUIDE VSC V	
82	M-LCD-0826-0124	5051800501	LCD 18.0" TFT PANEL	
83	B-AC-0215-0038	5600110046	LCD AUDIO BD ASSY L19EMW 05AAW	
84	B-IF-0222-0037	5600110055	LCD I/F BD ASSY L18HMW 05AAW	
85	B-KB-0207-0031	5600110067	LCD FUN KEY BD ASSY L19EMW 05A	

9.2 Complete Parts List

VS Model Name: VX800-3

ITEM	VIEWSONIC P/N	REFERENCE NO.	MFG PART	DESCRIPTION	QTY	UM
1	A-AD-0114-0182	0993026502	ADP-60AF A	POWER 90-264VAC 12VDC 5A	1	PCE
2	A-PC-0106-0193	3070000501	WP201-WTP-003	AC POWER CORD L1800 BLACK	1	PCE
3	A-AU-0120-0033	3080005100		CABLE AUDIO L=1800 BLK PC99	1	PCE
4	A-MC-0105-0017	3080005200		CABLE MICPHONE L=1800 BLK	1	PCE
5	M-MS-0808-8033	3080412101		CABLE D-SUB TO D-SUB RGB BLK L	1	PCE
6	M-MS-0808-8041	3080412401		CABLE DVI-D/DVI-D SINGLE LINK	1	PCE
7	A-PC-0106-0229	3090119001		AC POWER CORD L1830 BLACK US	1	PCE
8	M-SCW-0824-0410	3100300600		SCREW M M3*0.5*6 PAN C S+P S20	2	PCE
9	M-SCW-0824-0391	3100300800		SCREW M M3*0.5*8 PAN C S+P S20	4	PCE
10	M-SCW-0824-0391	3100300800		SCREW M M3*0.5*8 PAN C S+P S20	1	PCE
11	M-SCW-0824-0696	3102030800		SCREW M M4*0.7*8 FLAT C S10C Z	2	PCE
12	M-SCW-0824-0690	3105051501		SCREW M #4-40*7 HEXH #4-40*3 S	2	PCE
13	M-SCW-0824-0690	3105051501		SCREW M #4-40*7 HEXH #4-40*3 S	2	PCE
14	M-SCW-0814-0691	3105120100		SCREW M M4*0.7*12 PAN C S+P S1	6	PCE
15	M-SCW-0814-0692	3105124000		SCREW M M4*0.7*6 PAN C S18C NI	2	PCE
16	M-SCW-0814-0692	3105124000		SCREW M M4*0.7*6 PAN C S18C NI	6	PCE
17	M-SCW-0814-0693	3105124500		SCREW M M4*0.7*6 FF C S18C ZN	4	PCE
18	M-SCW-0814-0693	3105124500		SCREW M M4*0.7*6 FF C S18C ZN	3	PCE
19	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	2	PCE
20	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	3	PCE
21	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	4	PCE
22	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	3	PCE
23	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	4	PCE
24	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	5	PCE
25	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	2	PCE
26	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	2	PCE
27	M-SCW-0814-0694	3109015000		SCREW T φ3*1.27*8 PAN C S20C	3	PCE
28	M-SCW-0824-0620	3109020500		SCREW T φ4*1.6*10 PAN C S18C	2	PCE
29	M-SCW-0824-0620	3109020500		SCREW T φ4*1.6*10 PAN C S18C	2	PCE
30	M-SCW-0824-0431	3109020800		SCREW T φ4*1.6*12 PAN C S18C	1	PCE
31	M-SCW-0824-0733	3109026000		SCREW T φ4*1.27*12 FPH C S18C	4	PCE
32	M-SCW-0824-0733	3109026000		SCREW T φ4*1.27*12 FPH C S18C	4	PCE
33	M-MS-0808-8040	3110250000		WASHER SPRING SWRT	2	PCE
34	M-MS-0808-8040	3110250000		WASHER SPRING SWRT	2	PCE
35	M-LB-0813-0712	3200449700		LABEL WARING	0.1	PCE
36	M-MS-0808-4686	3200462800	DA-1565SB	NAME PLATE AL+PC VSC 3-BIRD LO	1	PCE
37	M-MS-0808-8151	3200641801		NAME PLATE AL 43*6.9*1.15T VIE	1	PCE
38	M-LB-0813-0384	3200712700		LABEL CONTROL 100*90	0.1	PCE
39	M-LB-0813-0551	3200744000		LABEL BAR CODE 55*15 VSC-G	1	PCE
40	M-LB-0813-0696	3200753101		LABEL BAR CODE 76*121	1	PCE
41	M-LB-0813-0759	3200930800		LABEL VER. CONTROL 20*20 VIEWS	1	PCE
42	M-LB-0813-0763	3201942500		LABEL ID 160*43 VSC VX800-3	1	PCE
43	M-LB-0813-0700	3202207300		LABEL MIC IN 10.2*15	1	PCE
44	M-LB-0813-0714	3202310700		LABEL HV WARNING 100*25	1	PCE
45	M-MS-0808-8303	3211024500		MYLAR 435*350 T.2	1	PCE
46	M-MS-0808-8202	3220133600	#1350F-1 W=10	TAPE W=10 #1350F-1 3M	0.3	MTR
47		3220605633	#7290 W=45	TAPE W=45 #7290 NITTO	0.1	MTR
48		3221101900	PP47 W=76 50M	TAPE W=76 PP47 50M 4P	0.8	MTR
49		3221407510	VHB4926 W=7	TAPE W=7 VHB4926 E468	0.2	MTR
50		3240659500		INSULATOR FR-700 T.4 193.2*40	1	PCE
51	PL-PD-0714-0067	3240956800		RUBBER FOOT 81*13*3T BLK	2	PCE
52	PL-PD-0714-0068	3240957500		RUBBER FOOT 75*10 T3	2	PCE
53	M-MS-0808-8155	3240959801		RUBBER HOLD PLUG OD5.2 H3.8 BL	4	PCE
54		3343705302		HSK AL T=1.5 21*9	1	PCE
55	C-BC-0302-0487	3360240600		CABINET BACK ABS 41 VX800-2	1	PCE
56		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	777	GRM
57		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	777	GRM
58		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	777	GRM

59	M-CV-0830-2381	3360916300		ARM FRONT ABS 41 VX700-2	1	PCE
60		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	65	GRM
61		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	65	GRM
62		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	65	GRM
63	M-CV-0830-2382	3360916400		ARM REAR ABS 41 VX700-2	1	PCE
64		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	85	GRM
65		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	85	GRM
66		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	85	GRM
67	C-FP-0301-0326	3361074400		F/B ABS SV-651 VX800-2	1	PCE
68		4020372907	D-180 5140	PLASTIC ABS 94HB 5140 D-180	235	GRM
69		4020372908	HF-380 5140	PLASTIC ABS 94HB 5140 HF-380	235	GRM
70		4020372909	SD-0150 5140	PLASTIC ABS 94HB 5140 SD-0150	235	GRM
71		4020372914	PA-757 5140	PLASTIC ABS 94HB 5140 PA-757	235	GRM
72	M-CV-0830-2384	3361204500		COVER BASE ABS 41 VX700-2	1	PCE
73		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	121	GRM
74		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	121	GRM
75		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	121	GRM
76	M-CV-0830-2403	3368205200		SPEAKER COVER ASSY L18HMW05AAW	1	PCE
77	PL-FK-0709-0114	3360727100		FUNCTION KEY ABS VSC02B	1	PCE
78		4020372907	D-180 5140	PLASTIC ABS 94HB 5140 D-180	1	GRM
79		4020372908	HF-380 5140	PLASTIC ABS 94HB 5140 HF-380	1	GRM
80		4020372909	SD-0150 5140	PLASTIC ABS 94HB 5140 SD-0150	1	GRM
81		4020372914	PA-757 5140	PLASTIC ABS 94HB 5140 PA-757	1	GRM
82	M-CV-0830-2402	3361204800		COVER SPEAKER ABS 41 VX800-2	1	PCE
83		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	67	GRM
84		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	67	GRM
85		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	67	GRM
86	C-BC-0302-0479	3368213600		R/C ASSY L17KMW05AAW	1	PCE
87	M-MS-0808-7739	3200648800		NAME PLATE ABS 94HB	1	PCE
88		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	11	GRM
89		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	11	GRM
90		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	11	GRM
91	C-BC-0302-0477	3360240100		R/C ABS VSC02B VX700-2	1	PCE
92		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	54	GRM
93		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	54	GRM
94		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	54	GRM
95	M-MS-0808-8159	3371004902		BRKT BASE SPCC T=2 ZN BLK	1	PCE
96		3371005203		BRACKET HINGE SPCC 128.1*156 T	1	PCE
97	M-MH-0822-0002	3371005500		BRACKET VESA MOUNTING SECC	1	PCE
98	M-MH-0822-0004	3371005701		BRACKET KENSINGTON SECC	1	PCE
99	M-CV-0830-2348	3372004201		COVER INVERT SECC T=0.6 18"	1	PCE
100	M-MS-0808-8223	3372005001		BRACKET R/C SUB SECC T=1.2	2	PCE
101	M-MS-0808-8162	3421024500	FN-011	CABLE CLAMP GROUNDING SPCC	1	PCE
102	M-CV-0830-2369	3460119101		BRACKET REAR COVER SECC	1	PCE
103	M-MH-0822-0038	3460141801		BRACKET D-SUB SECC 211.5*23.8	1	PCE
104	M-MH-0822-0010	3460141900		BRACKET PANEL SECC 408*326.2 T	1	PCE
105	M-CV-0830-2396	3461223200		SHIELD CAN I/F SPTH 219.5*141.	1	PCE
106	M-MS-0808-8163	3461750601		HINGE SUB ASSY R	1	PCE
107	M-MS-0808-8164	3461750701		HINGE SUB ASSY L	1	PCE
108	M-MS-0808-8165	3463000400		CONDUCTIVE AL 50*30 T=0.1	3	PCE
109	P-FM-0602-0756	3500084701		END BLOCK EPS (B) 558*261*170	1	PCE
110	P-FM-0602-0757	3500084801		END BLOCK EPS (T) 558*261*170	1	PCE
111	M-MS-0808-7674	3500932401		PE BAG 500*640 T=0.06 CLEAN	1	PCE
112		3510441600		TRAY 1166*1076*142H(INSIDE) VX	0.1	PCE
113	M-LCD-0826-0127	3510552100		TUBE 1156*1066*1050(H) LCD 19"	0.1	PCE
114		3510807600		ANGLE PAPER 2190*55*55	0.1	PCE
115		3510878400		CAP PAPER 1140*1050*120	0	PCE
116	P-BX-0601-0784	3512234900		CARTON 565*265*595 VSC VG800-2	1	PCE
117		3520026000		PALLET FUMIGATED 1070*1140*120	0	PCE

118	M-MS-0808-5135	3520082400		PE FILM t=0.02mm W=500	0	KGM
119		3520084000		PE SHEET 1800*1600*0.15	0.1	PCE
120	M-MS-0808-7748	3520087700	#9	PE SHIELDING BAG 280*200	1	PCE
121		3520130500		DRYER 15G 80*60	2	PCE
122	PL-SP-0723-0002	3520142700		PLASTIC STRIP W=12 T.5 BLACK	1	MTR
123	M-MS-0808-7750	3532060100		MANUAL PACKING ASSY VSC	1	PCE
124	M-MS-0808-8396	3520094201		PE BAG 260*155*0.1T	1	PCE
125	M-MS-0808-7751	5011086700		MANUAL QUICK START GUIDE VSC	1	PCE
126	A-CD-VX800-3	3532060200		CD-ROM VSC A-CD-VX800-3	1	PCE
127	M-WR-0828-0688	3610170900		AC SOCKET ASSY L19EMW05AAW	1	PCE
128	M-WR-0828-0682	3670190400		WIRE WITH HOUSING 1007 #28 L12	1	PCE
129	M-WR-0828-0689	3670190700		WIRE WITH HOUSING 20276 #30 L2	1	PCE
130	M-WR-0828-0690	3670194000		WIRE WITH HOUSING 20276 #28 L3	1	PCE
131		3670473700		WIRE WITH HOUSING 2547 #28 L47	1	PCE
132	E-SK-0412-0070	3790193400		SPEAKER-R ASSY L17KMW05AAW	1	PCE
133	E-SK-0412-0071	3790193500		SPEAKER-L ASSY L17KMW05AAW	1	PCE
134	B-SB-0221-0451	4900502900	DAC-12B084 A0	DC-AC INVERTER 12V/1500VMIN 6L	1	PCE
135	M-LCD-0826-0124	5051800501	M180E1-L03	LCD 18.0" TFT PANEL	1	PCE
136	B-AC-0215-0038	5600110046		LCD AUDIO BD ASSY L19EMW	1	PCE
137	E-R-0405-7053	0341041300	2322 704 61002	RES CH 1/10W 1K F 0603	1	PCE
138	E-R-0405-7046	0341046100	2322 734 62402	RES CH 1/8W 2.4K F 0805	1	PCE
139	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
140	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
141	E-R-0405-7054	0343102300	2322 702 60102	RES CH 1/10W 1K J 0603	1	PCE
142	E-R-0405-7054	0343102300	2322 702 60102	RES CH 1/10W 1K J 0603	1	PCE
143	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
144	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
145	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
146	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
147	E-R-0405-7042	0343220300	2322 702 60229	RES CH 1/10W 22 J 0603	1	PCE
148	E-R-0405-7042	0343220300	2322 702 60229	RES CH 1/10W 22 J 0603	1	PCE
149	E-R-0405-7055	0343221300	ERJ-3GEYJ 221	RES CH 1/10W 220 J 0603	1	PCE
150	E-R-0405-7055	0343221300	ERJ-3GEYJ 221	RES CH 1/10W 220 J 0603	1	PCE
151	E-R-0405-6687	0343222300	2322 702 60222	RES CH 1/10W 2.2K J 0603	1	PCE
152	E-R-0405-6687	0343222300	2322 702 60222	RES CH 1/10W 2.2K J 0603	1	PCE
153	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
154	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
155	E-R-0405-7035	0343473300	2322 702 60473	RES CH 1/10W 47K J 0603	1	PCE
156	E-R-0405-7035	0343473300	2322 702 60473	RES CH 1/10W 47K J 0603	1	PCE
157	E-R-0405-6691	0343562300	2322 702 60562	RES CH 1/10W 5.6K J 0603	1	PCE
158	E-R-0405-6691	0343562300	2322 702 60562	RES CH 1/10W 5.6K J 0603	1	PCE
159	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
160	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
161	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
162	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
163	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
164	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
165	E-C-0404-4860	148144781103	UWX1E4R7MCR1GB	CAP AL CP 25V 4.7U M 4*5.5	1	PCE
166	E-C-0404-4860	148144781103	UWX1E4R7MCR1GB	CAP AL CP 25V 4.7U M 4*5.5	1	PCE
167	E-C-0404-4860	148144781103	UWX1E4R7MCR1GB	CAP AL CP 25V 4.7U M 4*5.5	1	PCE
168	E-C-0404-4860	148144781103	UWX1E4R7MCR1GB	CAP AL CP 25V 4.7U M 4*5.5	1	PCE
169	E-C-0404-4856	149124711433	UWT1C471MNR1GS	CAP AL CP 16V 470U M 8*10	1	PCE
170	E-C-0404-4856	149124711433	UWT1C471MNR1GS	CAP AL CP 16V 470U M 8*10	1	PCE
171	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
172	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
173	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
174	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
175	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
176	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
177	E-C-0404-4879	1511477000	2238 586 15528	CAP MC CP 50V 2.7KP J X7R 0603	1	PCE

178	E-C-0404-4879	1511477000	2238 586 15528	CAP MC CP 50V 2.7KP J X7R 0603	1	PCE
179	E-C-0404-4874	1511530000	C0603N101J050T	CAP MC CP 50V 100P J C0G 0603	1	PCE
180	E-C-0404-4874	1511530000	C0603N101J050T	CAP MC CP 50V 100P J C0G 0603	1	PCE
181	E-C-0404-4874	1511530000	C0603N101J050T	CAP MC CP 50V 100P J C0G 0603	1	PCE
182	E-C-0404-4874	1511530000	C0603N101J050T	CAP MC CP 50V 100P J C0G 0603	1	PCE
183	E-C-0404-4875	1511545000	C1608C0G1H102JT	CAP MC CP 50V 1KP J C0G 0603	1	PCE
184	E-C-0404-4875	1511545000	C1608C0G1H102JT	CAP MC CP 50V 1KP J C0G 0603	1	PCE
185	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
186	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
187	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
188	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
189	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
190	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
191	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
192	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
193	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
194	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
195	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
196	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
197	E-D-0403-2054	203812550636	RLZ TE-11 6.8C	DIO ZEN 0.5W 6.66-7.01V LLDS(M	1	PCE
198	E-D-0403-2054	203812550636	RLZ TE-11 6.8C	DIO ZEN 0.5W 6.66-7.01V LLDS(M	1	PCE
199	E-D-0403-2054	203812550636	RLZ TE-11 6.8C	DIO ZEN 0.5W 6.66-7.01V LLDS(M	1	PCE
200	E-D-0403-2054	203812550636	RLZ TE-11 6.8C	DIO ZEN 0.5W 6.66-7.01V LLDS(M	1	PCE
201	E-D-0403-2047	204810750136	RLS4148 TE-11	DIO SW 0.15A 75V MINIMELF	1	PCE
202	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
203	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
204	E-Q-0402-0407	210522000717	MMBT2222A	TR 40V 1A SOT-23 75	1	PCE
205	E-Q-0402-1550	242601100223	GF4412	FET 30V 7A 28mohm SO-8PIN	1	PCE
206	E-Q-0402-1550	242601100223	GF4412	FET 30V 7A 28mohm SO-8PIN	1	PCE
207	E-Q-0402-1549	242601100231	SI4412DY-T1	FET 30V 7A 0.028ohm SO-8	1	PCE
208	E-Q-0402-1549	242601100231	SI4412DY-T1	FET 30V 7A 0.028ohm SO-8	1	PCE
209		2500047320	PQ20WZ1U	IC REGU +20V 1A SC-63 5PIN	1	PCE
210	E-IC-0401-1927	2530085011	PT2313L	IC 4-CH AUDIO PROCESSOR SO-	1	PCE
211	E-IC-0401-1928	2530100016	TDA1517/N3	IC 2*6 STEREO CARD RADIO 9P	1	PCE
212	E-L-0407-1546	2921093512	MLB-160808-0040A-N	CORE BEAD 100MHZ 40 OHM 0.4A 0	1	PCE
213	E-L-0407-1546	2921093512	MLB-160808-0040A-N	CORE BEAD 100MHZ 40 OHM 0.4A 0	1	PCE
214	E-L-0407-1547	2921174612	MLB-201209-0080P-N	CORE BEAD 100MHZ 80 OHM 3A	1	PCE
215	E-L-0407-1547	2921174612	MLB-201209-0080P-N	CORE BEAD 100MHZ 80 OHM 3A	1	PCE
216		2973006403		PWB D0 L2 FR-4 60*100 (AUDIO B	1	PCE
217		3071312334	A2501WV2-4P	HEADER NYLON66 94V-0 4P P2.5	1	PCE
218		3072230400	JY-3551-21-070	CONN PHONE JACK OD3.5 7P	1	PCE
219		3072231000	JY-3551-D1-070	CONN PHONE JACK OD3.5 7P R/A G	1	PCE
220		3076265034	A2005WV0-2D*5P	HEADER BOX PBT 94V0 2*5P P2.0	1	PCE
221	B-IF-0222-0037	5600110055		LCD I/F BD ASSY L18HMW 05AAW	1	PCE
222		0313151000	2322 711 61151	RES CH 1/4W 150 J 1206	1	PCE
223		0313151000	2322 711 61151	RES CH 1/4W 150 J 1206	1	PCE
224	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
225	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
226	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
227	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
228	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
229	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
230	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
231	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
232	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
233	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
234	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
235	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
236	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
237	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE

238	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
239	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
240	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
241	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
242	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
243	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
244	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
245	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
246	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
247	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
248	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
249	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
250	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
251	E-R-0405-7054	0343102300	2322 702 60102	RES CH 1/10W 1K J 0603	1	PCE
252	E-R-0405-7054	0343102300	2322 702 60102	RES CH 1/10W 1K J 0603	1	PCE
253	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
254	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
255	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
256	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
257	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
258	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
259	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
260	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
261	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
262	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
263	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
264	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
265	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
266	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
267	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
268	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
269	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
270	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
271	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
272	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
273	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
274	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
275		0343201300	2322 702 60201	RES CH 1/10W 200 J 0603	1	PCE
276		0343201300	2322 702 60201	RES CH 1/10W 200 J 0603	1	PCE
277	E-R-0405-7042	0343220300	2322 702 60229	RES CH 1/10W 22 J 0603	1	PCE
278	E-R-0405-7042	0343220300	2322 702 60229	RES CH 1/10W 22 J 0603	1	PCE
279	E-R-0405-7042	0343220300	2322 702 60229	RES CH 1/10W 22 J 0603	1	PCE
280	E-R-0405-7042	0343220300	2322 702 60229	RES CH 1/10W 22 J 0603	1	PCE
281	E-R-0405-7042	0343220300	2322 702 60229	RES CH 1/10W 22 J 0603	1	PCE
282	E-R-0405-7042	0343220300	2322 702 60229	RES CH 1/10W 22 J 0603	1	PCE
283	E-R-0405-6687	0343222300	2322 702 60222	RES CH 1/10W 2.2K J 0603	1	PCE
284	E-R-0405-6687	0343222300	2322 702 60222	RES CH 1/10W 2.2K J 0603	1	PCE
285	E-R-0405-6687	0343222300	2322 702 60222	RES CH 1/10W 2.2K J 0603	1	PCE
286		0343223300	2322 702 60223	RES CH 1/10W 22K J 0603	1	PCE
287		0343223300	2322 702 60223	RES CH 1/10W 22K J 0603	1	PCE
288		0343223300	2322 702 60223	RES CH 1/10W 22K J 0603	1	PCE
289		0343223300	2322 702 60223	RES CH 1/10W 22K J 0603	1	PCE
290	E-R-0405-7058	0343330300	2322 702 60339	RES CH 1/10W 33 J 0603	1	PCE
291	E-R-0405-7058	0343330300	2322 702 60339	RES CH 1/10W 33 J 0603	1	PCE
292	E-R-0405-7058	0343330300	2322 702 60339	RES CH 1/10W 33 J 0603	1	PCE
293	E-R-0405-6690	0343470300	2322 702 60479	RES CH 1/10W 47 J 0603	1	PCE
294	E-R-0405-6690	0343470300	2322 702 60479	RES CH 1/10W 47 J 0603	1	PCE
295	E-R-0405-6690	0343470300	2322 702 60479	RES CH 1/10W 47 J 0603	1	PCE
296	E-R-0405-6690	0343470300	2322 702 60479	RES CH 1/10W 47 J 0603	1	PCE
297	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE

298	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
299	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
300	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
301	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
302	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
303	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
304	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
305	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
306	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
307	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
308	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
309	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
310	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
311	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
312	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
313	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
314	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
315	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
316	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
317	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
318	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
319		0343685300	RMC1/16 685 JTP	RES CH 1/10W 6.8M J 0603	1	PCE
320		0343750300	2322 702 60759	RES CH 1/10W 75 J 0603	1	PCE
321		0343750300	2322 702 60759	RES CH 1/10W 75 J 0603	1	PCE
322		0343750300	2322 702 60759	RES CH 1/10W 75 J 0603	1	PCE
323		0343823300	2322 702 60823	RES CH 1/10W 82K J 0603	1	PCE
324		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
325		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
326		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
327		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
328		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
329		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
330		0619900705	RS1-1002R-J1	RES ARRAY 10K J 8P4R 1206	1	PCE
331		0619900705	RS1-1002R-J1	RES ARRAY 10K J 8P4R 1206	1	PCE
332		0619900712	YC164-JR-07 10K	RES ARRAY 10K J 8P4R 1206	1	PCE
333		0619900712	YC164-JR-07 10K	RES ARRAY 10K J 8P4R 1206	1	PCE
334		0730060412	AT014318F30AA	CRYSTAL 14.318MHZ+-30PPM AT-	1	PCE
335	E-FS-0410-0074	0841110702	0251004.NRT1	FUSE F/P 4A 125V UL CSA	1	PCE
336		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
337		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
338		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
339		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
340		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
341		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
342		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
343		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
344		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
345		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
346		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
347		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
348		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
349		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
350	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
351	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
352	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
353		148124701308	16REV47M6.3*5.5	CAP AL CP 16V 47U M 6.3*5.5	1	PCE
354		148124701308	16REV47M6.3*5.5	CAP AL CP 16V 47U M 6.3*5.5	1	PCE
355		148124701308	16REV47M6.3*5.5	CAP AL CP 16V 47U M 6.3*5.5	1	PCE
356		149121001108	16RGV10M4*5.5	CAP AL CP 16V 10U M 4*5.5	1	PCE
357		149121001133	UWT1C100MCR1GB	CAP AL CP 16V 10U M 4*5.4	1	PCE

358	E-C-0404-4856	149122211333	UWT1C221MCR1GS	.AP AL CP 16V 220U M 6.3*7.7	1	PCE
359	E-C-0404-4856	149122211333	UWT1C221MCR1GS	.AP AL CP 16V 220U M 6.3*7.7	1	PCE
360		149124711408	16RGV470M8*10.5	CAP AL CP 16V 470U M 8*10.5	1	PCE
361		149124711408	16RGV470M8*10.5	CAP AL CP 16V 470U M 8*10.5	1	PCE
362		149124711433	UWT1C471MNR1GS	CAP AL CP 16V 470U M 8*10	1	PCE
363		149124711433	UWT1C471MNR1GS	CAP AL CP 16V 470U M 8*10	1	PCE
364		149142211408	25RGV220M8*10.5	CAP AL CP 25V 220U M 8*10.5	1	PCE
365		149142211408	25RGV220M8*10.5	CAP AL CP 25V 220U M 8*10.5	1	PCE
366		149142211433	UWT1E221MNR1GS	CAP AL CP 25V 220U M 8*10	1	PCE
367		149142211433	UWT1E221MNR1GS	CAP AL CP 25V 220U M 8*10	1	PCE
368	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
369	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
370	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
371	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
372	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
373	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
374	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
375	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
376	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
377	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
378	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
379	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
380	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
381	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
382	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
383	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
384	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
385	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
386	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
387	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
388	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
389	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
390	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
391	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
392	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
393	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
394	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
395	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
396	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
397	E-C-0404-4881	1514504000	2238 867 14508	CAP MC CP 50V 5P C C0G 0603	1	PCE
398	E-C-0404-4881	1514504000	2238 867 14508	CAP MC CP 50V 5P C C0G 0603	1	PCE
399		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
400		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
401		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
402		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
403		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
404		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
405		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
406		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
407		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
408		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
409		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
410		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
411		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
412		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
413		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
414		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
415		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
416		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
417		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE

418		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
419		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
420		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
421		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
422		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
423		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
424		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
425		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
426		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
427		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
428		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
429		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
430		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
431		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
432		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
433		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
434		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
435		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
436		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
437		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
438		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
439		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
440		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
441		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
442		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
443		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
444		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
445		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
446		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
447		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
448		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
449		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
450		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
451		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
452		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
453		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
454		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
455		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
456		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
457		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
458		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
459		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
460		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
461		202351080105	1N5822	DIO SBD 3A 40V DO-201AD	1	PCE
462	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
463	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
464	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
465	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
466	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
467	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
468	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
469	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
470	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
471	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
472	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
473	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
474	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
475	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
476	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
477	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE

478	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
479	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
480	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
481	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
482		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
483		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
484		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
485		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
486		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
487		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
488		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
489		204520700305	BAV70LT1	DIO SW 0.2A 70V SOT-23 C.C.	1	PCE
490		204520700305	BAV70LT1	DIO SW 0.2A 70V SOT-23 C.C.	1	PCE
491		204520700307	BAV70,235	DIO SW 0.215A 75V SOT-23	1	PCE
492		204520700307	BAV70,235	DIO SW 0.215A 75V SOT-23	1	PCE
493		204520700317	BAV70	DIO SW 0.2A 70V SOT-23 C.C.	1	PCE
494		204520700317	BAV70	DIO SW 0.2A 70V SOT-23 C.C.	1	PCE
495	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
496	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
497	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
498	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
499	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
500	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
501	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
502	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
503	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
504	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
505	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
506	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
507	E-Q-0402-7017	211522000205	MMBT3906LT1	TR -40V -0.2A SOT-23 100-300	1	PCE
508	E-Q-0402-7017	211522000205	MMBT3906LT1	TR -40V -0.2A SOT-23 100-300	1	PCE
509		211522000217	MMBT3906	TR -40V -0.2A SOT-23 100-300	1	PCE
510		211522000217	MMBT3906	TR -40V -0.2A SOT-23 100-300	1	PCE
511		243600600031	SI9933ADY-T1	FET -20V -3.4A 0.075ohm SO-8P	1	PCE
512	E-Q-0402-1551	243601100017	FDS4435	FET -30V -8.8A 0.02ohm SO-8	1	PCE
513	E-Q-0402-1552	243601100031	SI4435DY-REVA-T1	FET -30V -8.0A 0.02ohm SO-8	1	PCE
514		2500075813	LM2576D2TR4-5	IC VOLT/REG 5V 3A D2PAK-5P(TO-	1	PCE
515		2500080410	LD1085CDT-R	IC REGU LDO ADJ 3A DPAK	1	PCE
516		2500080541	APL1085-UC-TR	IC REGU ADJ 3A TO-252	1	PCE
517		2500088136	XC61CC4402MR	IC VOL DETECTOR 4.4V SOT-23	1	PCE
518		2500092109	SI-8050SD	IC VOLT/REGU 5V 3A TO-263-5	1	PCE
519		2500223009	SI-3033KS-TL	IC REGU 3.3V 1A SMD-8P	1	PCE
520		2500223009	SI-3033KS-TL	IC REGU 3.3V 1A SMD-8P	1	PCE
521		2530192427	GM5120	IC IMAGE PROCESSOR PQFP-208P	1	PCE
522	E-IC-0401-1931	2540005008	SN75LVDS83DGGR	IC TRANSMITTER TSSOP-56P	1	PCE
523	E-IC-0401-1931	2540005008	SN75LVDS83DGGR	IC TRANSMITTER TSSOP-56P	1	PCE
524	E-IC-0401-1932	2540170021	THC63LVDM83A	IC LVDS I/F TSSOP-56P	1	PCE
525	E-IC-0401-1932	2540170021	THC63LVDM83A	IC LVDS I/F TSSOP-56P	1	PCE
526		2540317134	CS5828	IC LVDS X' CEVIER 28:4 85MHZ TS	1	PCE
527		2540317134	CS5828	IC LVDS X' CEVIER 28:4 85MHZ TS	1	PCE
528		2600088009	74F14SC	IC HEX INVERTER SOIC-14	1	PCE
529	E-IC-0401-2693	2610049742	M24C02-WMN6T	IC CMOS 2K EEPROM SO8	1	PCE
530	E-IC-0401-2694	2610099337	24LC21AT/SN	IC EEPROM 1K SO-8	1	PCE
531	E-IC-0401-2695	2610099942	ST24LC21BM6TR	IC EEPROM 1K*8 SO-8	1	PCE
532	E-IC-0401-2696	2610188212	AT24C16-10PC	IC E2PROM 16K 5V 8PIN	1	PCE
533	E-IC-0401-2697	2610188612	AT24C16N-10SC-2.7	IC EEPROM 16K SOIC-8P	1	PCE
534		2610380523	A290011TL-70	IC FLASH MEMORY 128K*8 70NS PL	1	PCE
535	E-IC-0401-2698	2610452084	SST39SF010-90-4C-N	IC F-EEPROM 128K*8 90NS PLCC32	1	PCE
536		2817127210	E-8770	CHOKE CR 100uH L T50-26B	1	PCE
537		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE

538		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
539		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
540		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
541		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
542		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
543		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
544		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
545		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
546		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
547		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
548		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
549		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
550		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
551		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
552		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
553		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
554		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
555		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
556		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
557		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
558		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
559		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
560		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
561		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
562		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
563		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
564		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
565		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
566		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
567		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
568		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
569		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
570		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A	1	PCE
571		2970035401		PWB M0 L4 FR-4 140*117 (I/F BD	1	PCE
572		3020015200	1041003201	SOCKET IC 32P P1.27 SMD	1	PCE
573		3070337934	A2002WR2-11P	WAFER 2.0mm 11P R-ANGLE	1	PCE
574		3075308757	DV11201-P8-1	CONN D-SUB 15P R/A PC99 W/O SC	1	PCE
575		3075316128	67351-9074	CONN DVI-D 94V0 24P R/A GOLD F	1	PCE
576		3076151434	A2003WR2-2A*15P	PIN HEADER PBT 94V0 2*15P P2.0	1	PCE
577		3076265034	A2005WV0-2D*5P	HEADER BOX PBT 94V0 2*5P P2.0	1	PCE
578		3202009100		LABEL REISTRATION 40*16	1	PCE
579		3202215900		LABEL MCU 11*11 POLYESTER 50#	1	PCE
580		3670472200		WIRE WITH HOSING 1007 #24 L130	1	PCE
581		3670704600		WIRE WITH HOUSING 1007 #28 L20	1	PCE
582	B-KB-0207-0031	5600110067		LCD FUN KEY BD ASSY L19EMW	1	PCE
583		2301462531	L-91WEGW	LED HI-RED/GRN 3*4*2 C.C.	1	PCE
584		2970036001		PWB S1 FR-1 28.5*180 (KEY BD)	1	PCE
585		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
586		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
587		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
588		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
589		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
590		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
591		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
592		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
593		3070337934	A2002WR2-11P	WAFER 2.0mm 11P R-ANGLE	1	PCE
594		3122009500		HOLDER FOR LED NY66 UL94V-2 6*	1	PCE
595	M-WR-0828-0224	3411000300		JUMP WIRE BRASS 0.6*7.5*4.0	6	PCE
596	M-WR-0828-0402	4010670000		WIRE CU 0.6 TNC	0.1	GRM
597	B-SB-0221-0450	5600200113		MICROPHONE BD ASSY	1	PCE

598		0990601015	MD6052UWZ-4	MICROPHONE ASSY -46+-4dB	1	PCE
599		2973007402		PWB D0 L2 FR-4 15.5*60 (MICROP	1	PCE
600		3072230200	JY-3561-F1-070	CONN PHONE JACK OD3.5 7P	1	PCE
601		3072230300	JY-3561-51-070	CONN PHONE JACK OD3.5 7P	1	PCE

Reader's Response

Dear Readers:

Thank you in advance for your feedback on our Service Manual,which allows continuous improvement of our products. We would appreciate your completion of the Assessment Matrix below, for return to ViewSonic corporation.

Assessment

A. What do you think about the content after reading **VX800-3** series Service Manual?

Unit	*Excellent*	*Good*	*Fair*	*Bad*
Engineering Specifications				
Panel Control Description				
Circuit Description				
Troubleshooting Flow Chart				
Adjust Procedure				
Mechanical Assembly				
Schematic Diagrams				
PCB Layout				
Parts Lists				

B. Are you satisfied with the **VX800-3** service manual?

Item	*Excellent*	*Good*	*Fair*	*Bad*
1. Service Manual Content				
2. Service Manual Layout				
3. The form and listing				

C. Do you have any other opinion or suggestion about this service manual?

Reader's basic data:

Name:		Title:	
Company:			
Add:			
Tel:		Fax:	
E-mail:			

After completing this form, please return it to ViewSonic Quality Assurance in the USA at facsimile 1-909-444-8654. You may also e-mail any suggestions to the Director of Quality Assurance (marc.maupin@viewsonic.com)